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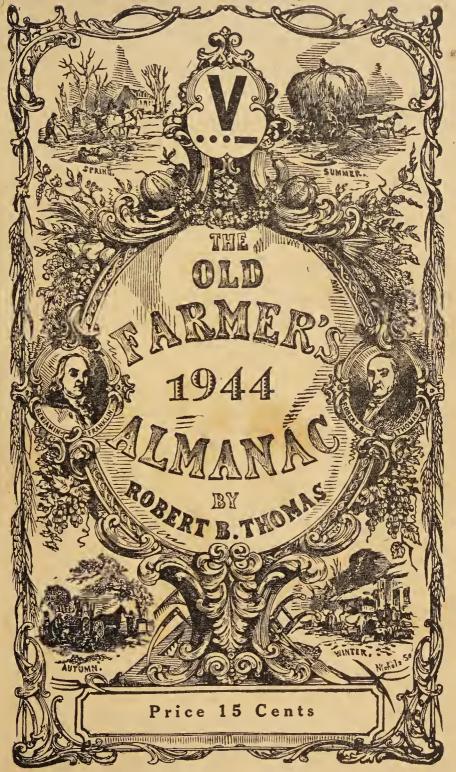
PRESENTED BY

PROF. F.A. HAGAR

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AY81 . F306 1944

The 152nd Continuous Year of Publication



Weather Indications

Free enterprise for free men

The colonist who cleared land for a farm in the wilderness and the American farmer of today are two fine symbols of free men carrying on free enterprise. Under this system our country has grown and flourished. We are now fighting to preserve this principle so that we may grow and prosper in the future.

Free enterprise put electricity, bathtubs, and radios into millions of American homes. Men and women who were free to think, act, speak, spend and save as they believed best have been responsible for America's high standard of living. The free enterprise which they sponsored, the capital which they invested, directly or through life insurance and savings, furthered our agricultural development and built our mighty industries. These industries were so strong, so well equipped, and so well staffed, that they could quickly convert to war production when it became necessary.

This system of free enterprise will enable American industries to reconvert to peacetime production when the war is over. The leadership of free men will enable American business to develop new skills, create new jobs, and turn out new products to enrich our daily lives.

As the custodians of the life insurance funds of freedom-loving men and women for more than 81 years, funds which have made a great deal of America's industrial and agricultural progress possible, we look ahead confidently to an even greater future for our country and our policyholders.

LIFE INSURANCE COMPANY
OF BOSTON, MASSACHUSETTS
GUY W. COX, President

THE

(OLD)

FARMER'S ALMANACK,

CALCULATED ON A NEW AND IMPROVED PLAN FOR THE YEAR OF OUR LORD

1944

Being BISSEXTILE or LEAP YEAR, and (until July 4) 168th year of American Independence.

FITTED FOR BOSTON, AND THE NEW ENGLAND STATES, WITH SPECIAL CORRECTIONS AND CALCULATIONS THIS YEAR TO ANSWER FOR ALL THE UNITED STATES.

Containing, besides the large number of Astronomical Calculations and the Farmer's Calendar for every month in the year, a variety of

NEW, USEFUL, AND ENTERTAINING MATTER.

ESTABLISHED IN 1792

BY ROBERT B. THOMAS.



Let there be thistles, there are grapes; If old things, there are new; Ten thousand broken lights and shapes. Yet glimpses of the true. Let raffs be rife in prose and rhyme, We lack not rhymes and reasons. As on this whirligig of Time We circle with the seasons.

Tennyson

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BROOKLINE, MASS.

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THE AMERICAN NEWS CO
AND BRANCHES

Publishers: YANKEE, INC. DUBLIN, N. H.

TO PATRONS AND CORRESPONDENTS

This issue is our One Hundred and Fifty-second consecutive annual edition. Your patronage these many years has been and is, in these trying times, a source of particularly real gratification and inspiration. The Almanack staff is at present in the armed forces or in war service. Thus is this edition born in the all too few hours of evenings and Sundays . . . in the candle light of part time labour.

Favourably received since its inception two years ago, the correction table for use by those outside New England is continued herewith. This is at the expense of the Length of Day tables-an omission noted by some with disfavour, yet readily remedied by the simple subtraction of the extent of one day from that of its neighbor.

The title page poems are by David Morton of Amherst, Massachusetts. To Eltinge F. Warner we are indebted for the full and detailed Game Laws. In the absence of Jeremy Scribble, B. M. Rice has prepared the Farmer's Calendars. Old Mr. Weatherwise writes from his government job that his "Weather Indications" of the past year, for the eight months he has been able to verify them, ran about 83% right, . . . and he trusts these included here will do as well. It is to be noted further that without the unselfish cooperation of many government officials this issue would not have been possible. Our thanks, finally, go out to our many friends of the press and radio.

Our President, Franklin D. Roosevelt, appeared in the top frame of our outside cover this past year. My deepest esteem remains for him in this great and responsible office and I have taken it for granted that he will join with us in the substitution therein this year of the Victory "V"—the cause in which we are all unconditionally united. Were the minds of our compilers more given to wishful thinking, I might foresee for you the end of the "duration" ere this vear of 1944 is over.

Man, however, in these great things can only propose. God is the true disposer. In this, then, it is by our works and not by our words we would be judged; these we hope will sustain us in the humble though proud station we have so long held.

Your ob'd servant.

November 20, 1943.

THE OFFICE OF CENSORSHIP

YANKEE, INĆ, Dublin, N. H. Gentlemen:

August 30, 1943

Thank you for submitting in proof form the weather indications for The Old Farmer's Almanac for the coming year. Due to your published statement that these are "weather indications," there is no application to them of the request in the "Weather" clause of the Code of Wartime Practices for the American Press that no weather forecasts be published except those issued by the U. S. Weather Bureau.

Your cooperation under the voluntary Code is appreciated.

Washington, D. C.

Very truly yours,

JACK LOCKHART Assistant Director (Press)

1944

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Consider now the stuttering sailor who upon seeing a shipmate overboard rushed aft to tell the captain. He was so terrified he could only mouth helplessly: "B-b-b--". "Sing it man," roared the captain, "sing it." Whereupon the sailor (for 'tis well known that stutterers can always sing) chanted:

"Overboard goes Barnabas— Half a mile astern of us."

1945

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HOW TO USE THE OLD FARMER'S ALMANACK

In accord with longtime usage certain signs are used on the left and right hand pages (8 through 31) to indicate planets, aspects, the Zodiac, etc. Definition of the astronomical terms used appears on pages 35, 36 and 37. Names and Characters of the Principal Planets.

Names and Characters of the Aspects. of Conjunction, or in the same degree. ☐ Dragon's Head, or Ascending Node. ☐ Quadrature, 90 degrees. ☐ Dragon's Tail, or Descending Node. ☐ Opposition, or 180 degrees. ☐ Dragon's Tail, or Descending Node.

4 Jupiter. h Saturn.

Hor & Uranus.

W Neptune. P Pluto.

♥ Venus. ⊕ The Earth.

d Mars.

The Sun.
The-Moon,
Mercury.

Names and Characters of the Signs of the Zodiac.
1. \P Aries, head. 2. \S Taurus, neck. 3. \square Gemini, arms. 4. \square Canoer, breast. 5. \S Leo, heart. 6. \square Virgo, belly. 7. \triangle Libra, reins. 8. \square Scorpio, secrets. 9. \uptheta Sagittarius, thighs. 10. \upphi Capricornus, knees
Golden Number
Movable Feasts and Fasts for 1944.
Septuagesima Sun., Feb. 6 Good Friday, Apr. 7 Whitsunday, May 28 Ash Wednesday, Feb. 20 Ash Wednesday, Feb. 23 Ist Sun. in Lent Feb. 27 Palm Sunday Apr. 2 Ascension Day, May 18 Pec. 3
THE SEASONS, 1944
Winter Solstice (Winter, 1943), December 22, 1:30 p.m.—Sunenters Capricornus, Vernal Equinox (Spring), March 20, 1:49 p.m.—" "Aries, Summer Solstice (Summer), June 21, 9:03 a.m.—" "Cancer, Edutumnal Equinox (Autumn), September 23, 12:02 a.m.—" "Libra, Minter Solstice (Winter), December 21, 7:15 p.m.—" "Capricornus, Vernal Equinox (Spring, 1945), March 20, 7:38 p.m.—" "Aries, Office and Capricornus, Vernal Equinox (Spring, 1945), March 20, 7:38 p.m.—" "Aries, Office and Capricornus, Vernal Equinox (Spring, 1945), March 20, 7:38 p.m.—" "Aries, Office and Capricornus, Vernal Equinox (Spring, 1945), March 20, 7:38 p.m.—" "Aries, Office and Capricornus, Vernal Equinox (Spring, 1945), March 20, 7:38 p.m.—" "Aries, Office and Capricornus, Vernal Equinox (Spring, 1945), March 20, 7:38 p.m.—" "Aries, Office and Capricornus, Vernal Equinox (Spring, 1945), March 20, 7:38 p.m.—" "Aries, Office and Capricornus, Vernal Equinox (Spring, 1945), March 20, 7:38 p.m.—" "Aries, Office and Capricornus, Vernal Equinox (Spring, 1945), March 20, 7:38 p.m.—" "Aries, Office and Capricornus, Vernal Equinox (Spring, 1945), March 20, 7:38 p.m.—" "Aries, Office and Capricornus, Vernal Equinox (Spring, 1945), March 20, 7:38 p.m.—" "Aries, Office and Capricornus, Vernal Equinox (Spring, 1945), March 20, 7:38 p.m.—" "Aries, Office and Capricornus, Vernal Equinox (Spring, 1945), March 20, 7:38 p.m.—" "Aries, Office and Capricornus, Vernal Equinox (Spring, 1945), March 20, 7:38 p.m.—" "Aries, Office and Capricornus, Vernal Equinox (Spring, 1945), March 20, 7:38 p.m.—" "Aries, Office and Capricornus, Vernal Equinox (Spring, 1945), March 20, 7:38 p.m.—" "Aries, Office and Capricornus, Vernal Equinox (Spring, 1945), March 20, 7:38 p.m.—" "Aries, Office and Capricornus, Vernal Equinox (Spring, 1945), March 20, 7:38 p.m.—" "Aries, Office and Capricornus, Vernal Equinox (Spring, 1945), March 20, 7:38 p.m.—" "Aries, Office and Capricornus, Vernal Equinox (Spring, 1945), March 20, 7:38 p.m.—" "Aries, Office and Capricornus, Vernal Equinox (Spring, 1945)
EARTH IN PERIHELION AND APHELION, 1944
The Earth will be in Perihelion on January 4, 1944, at 2 p.m., distant from the Sun 91,342,000 miles. The Earth will be in Aphelion on July 3, 1944, at 2 a.m. distant from the Sun 94,450,000 miles.
CALCULATIONS AND CORRECTIONS
While the predictions of the Calendar pages are made for the latitude and longitude of Boston and are in Eastern War Time, i.e., one hour fast of Eastern Standard Time, the time of the 75th meridian west of Greenwich, they may be used throughout the United States by applying the corrections given here and in the tables or pages 7, 32, and 37.
The Table given below contains corrections in minutes of time for a number of important places in New England, and any other place in New England can use the correction of the place in the Table which is pearest in longitude to itself
For the Rising and Setting of the Sun, Moon and Planets add tabular quantity if longitude from Boston is West, but subtract it if East; and this will give the value when the place is in or near the same latitude as Boston. When the latitude of the place differs considerably from that of Boston, the correction will also be right when the celestial body is on or near the Equator; but when it is remote from the Equator so much accuracy cannot be expected.
East, Eastport, Me. 16 min. Bangor, Me. 9 "Augusta, Me. 5" Piymouth, N.H. 2 "Newport, R.I. 1 "Providence, R.I. 1 "Providence, R.I. 1 "Providence, R.I. 1 "Providence, R.I. 2 "Newport, R.I. 1 "Providence, R.I. 2 "Newport, R.I. 2

Times obtained for a place other than Boston by the conversions described below will in every case be in the War Time of the time zone in which the place lies. Some States by State ordinance do not observe national War Time during the whole or part of the year. To obtain the time in everyday use in those States during the period such State ordinances are in effect one hour should be subtracted from the time derived by conversion. If during any part of the year 1943 the United Nations win the final victory and War Time is terminated nationally, one hour should be subtracted from the times of day obtained from the Almanac to obtain the time in common use, except in those States or Cities in which War Time or "daylight saving" time may be continued by State or local ordinances.

OUTSIDE NEW ENGLAND

A direct reading of the figures on the Almanac pages gives information that applies precisely and solely to Boston. The examples which follow interpret the significance of this information and illustrate the way to get the same information for a place outside New England, such as Dallas. The date, April 12, used for the purpose of the illustrations, has been chosen at random.

Sunrise and Sunset. The times of sunrise and sunset at Boston on April 12 are read directly from columns 4 and 6 on page 14. The key letters adjacent to these times, in columns 5 and 7, are indices to the table on page 7 whereby the times of sunrise and sunset at Boston are converted into those for other key cities, to wit:—

]	BOSTON	DAI	LLAS
Sunrise Key Letter	6:08 A.M.E.W.T. G	Sunrise (Boston) Correction (Column G, page 7)	6:08 A.M.E.W.T. +:52
	**	Sunrise (Dallas)	7:00 A.M.C.W.T.
Sunset Key letter	7:23 P.M.E.W.T. K	Sunset (Boston) Correction (Column K, page 7)	7:23 P.M.E.W.T. +:35
•		Sunset (Dallas)	7:58 P.M.C.W.T.

Dawn and Dark. The approximate times dawn will break and dark descend are found by applying the length of twilight taken from the table on page 37 to the times of sunrise and sunset given on the calendar pages. The latitude of the locality determines the column of the table from which the length of twilight is to be selected.

DOCTON

DALLAS

DUS.	1014	DAL	LIZE
(Latitude 4	2° 22′ N.)	(Latitude 3	32° 48′ N.)
Sunrise Subtract length of twilight (Column	6:08 A.M.	Sunrise Subtract length of twilight (Column	7:00 A.M.
4 of table)	1:39	4 of table)	1:28
Dawn breaks Sunset Add length of twi-	4:29 A.M.E.W.T. 7:23 P.M.	Dawn breaks Sunset Add length of twi-	5:32 A.M.C.W.T. 7:58 P.M.
light	1:39	light	1:28
Dark descends	9:02 P.M.E.W.T.	Dark descends	9:26 P.M.C.W.T.

Sun Slow. The column headed "Sun Slow" is of primary use to sundial enthusiasts. The figures therein tell how slow on each day the time indicated by a properly adjusted and graduated sundial will be of the time indicated by a clock. On April 12 sun time in Boston will be 45 minutes slow of Eastern War Time. The time indicated by a sundial located elsewhere than in Boston is converted to clock time by applying two corrections, the "sun slow" correction for Boston and that for the locality given in Column I of the table on page 7.

BOS	STON	DALLAS							
Sundial time Sun slow	3:34 P.M. +:45	Sundial time Sun slow Correction (Col-	10:17 A.M. +:45						
Eastern War Time	4:19 P.M.	umn I, page 37)	+:43						
-		Central War Time	11:45 A.M.						

The figures in the column headed "Length of Day" give di-Length of Day. The figures in the column headed "Length of Drectly the length of time the Sun will be above the horizon at Boston. of day in other localities is found by subtracting the time of sunrise from that of sunset for each locality. (See Sunrise and Sunset above).

BOSTON

DALLAS

Length of day (From calendar pages)

13h 15m

Sunset Sunrise 7:58 P.M. 7:00 A.M.

Length of Day

12h 58m

High Tides. The figures for Full Sea in Columns 11 and 12 of the left hand Almanac pages 8-30 are the times of high tide at Commonwealth Pier in Boston Harbor. The heights of these tides are given on the right hand pages 9-31. The heights are reckoned from Mean Low Water: each day has a set of figures — upper for the morning— and lower for the evening. Since Gulf ports are not beset with the tidal problems of ports on the open ocean, the conversion of the times of the tides at Boston to those of Miami is given by way of illustration.

BOSTON

MIAMI

High Tide

2:45 P.M.E.W.T.

High tide (Boston) 2:45 P.M. Correction page 37 —3:00

Height

9.0 feet

High tide (Miami) 11:45 A.M.E.W.T. Height (Miami) 2.7 feet (9.0 x 0.3)

Moonrise and Moonset. The procedure for finding the times of moonrise and moonset follows that for finding those of sunrise and sunset except that, for localities outside New England, the constant additional correction taken from Column 3 on page 7 must be applied.

BOSTON

DALLAS

Moonrise Key letter 11:28 P.M.E.W.T.

Moonrise (Boston) 11:28 P.M. Correction (Column N, page 7) Correction (Col-

umn 3, page 7) +:04

Moonrise (Dallas) 11:55 P.M.C.W.T.

Moon Souths. The time the moon souths in Boston is converted to the time it is due south in a locality other than Boston by applying the appropriate corrections from Columns I and 3 on page 7.

BOSTON

DALLAS

Moon souths

3:34 A.M.E.W.T.

Moon souths (Boston) Correction (Col-

3:34 A.M.

umn I, page 7) Correction (Col-+:43

umn 3, page 7) +:04

4:21 A.M.C.W.T.

The other information concerning the Moon contained on the left hand Almanac pages applies without correction throughout the United States.

Risings and Settings of the Planets. The times of the rising and setting of the naked eye Planets with the exception of Mercury are given for Boston in the table on page 32. The procedure for converting these times to those of other localities follows that, for converting the times of sunrise and sunset given above.

Planetary Aspects. The planetary aspects indicated by the symbols and abbreviations on the right hand Almanac pages 9-31, are explained on pages 35 and 36.

ALMANAC DATA — OUTSIDE NEW ENGLAND TABLE FOR FINDING TIMES OF SUNRISE, SUNSET, MOONRISE, MOONSET, AND RISING AND SETTING OF PLANETS TO WITHIN 5 MIN. ACCURACY ANYWHERE IN U. S. A.

Atlanta, Ga. Butte, Mont. Charleston, W. Va. Chicago, Ill. Cincinnati, O. Dallas, Tex. Denver, Colo. Des Moines, Ia. Detroit, Mieh. Indianapolis, Ind. Jacksonville, Fla. Los Angeles, Cal. Louisville, Ky. Miami, Fla. Minneapolis-St. Paul, Minn. New Orleans, La. New York, N. Y. Omaha, Neb. Philadelphia, Pa. Pittsburgh, Pa. Raleigh, N. C. Richmond, Va. Rochester, N. Y. St. Louis, Mo. Seattle, Wash. Topeka, Kans.	Your town (interpolate between nearest two). SUBTRACT OR			*
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	Moon	m	W	

1944] JANUARY, FIRST MONTH. ASTRONOMICAL CALCULATIONS. Days. Days. Days. Days. O's Declination, 19 07 23s. 03 2 0 18 52 18 37 18 21 18 06 17 50

- First Quarter, 2nd day, 4 h. 04 m., afternoon, E.
- O Full Moon, 10th day, 6 h. 09 m., morning, W.
- C Last Quarter, 18th day, 11 h. 32 m., morning, W.
- New Moon, 25th day, 11 h. 24 m., morning, E.

KEY LETTERS REFER TO CORRECTIONS TABLE, PAGE 7, FOR ALL POINTS OUTSIDE NEW ENGLAND. KEY LETTERS REFER TO CORRECTIONS TABLE, PAGE 7, FOR ALL POINTS OUTSIDE NEW ENGLAND. Company Co																			
Total to a second secon																			
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	I		la.	8	$\frac{13}{13}$	P	-	22	В	1	$\frac{m}{09}$		$\frac{4}{5}$	4	$\frac{1}{4\frac{1}{2}}$	Psc	morn		$\frac{\mathbf{m}}{603}$
	2	25	3	8	13	P	5	23	В	9		48	6	5	$5\frac{1}{2}$	Ari	1204	$_{ m H}$	6 53
	- 1	_(10	I.		13	P	5	$\frac{1}{24}$	В	9	11	48	7	$\frac{6}{6}$	$6\frac{1}{2}$	Ari	$\frac{12}{1}\frac{31}{12}$	J	742
13		A _		_	13	P	5	$\overline{24}$	В	1	11	$\frac{10}{49}$	8	7	$7\frac{1}{2}$	Ari	$\frac{1}{2}\frac{1}{20}$	K	8 30
	5	5 V			40	P	5	25	В		12	$\overline{49}$		8	$8\frac{1}{2}$	Tau	$\frac{1}{3} \frac{1}{25}$	L	9 19
	6	6 1	ľh.	8	13	Р	5	2 6	В	9	13	50	10	9.	$9\frac{1}{2}$	Tau	4 30	M	
	- 1		r.		13	Р	5	27	В	9	14	50	11	$9\frac{3}{4}$	$10\frac{1}{2}$	G'm	532	N	10 59
		- 1	a.		13	0		28	В	9	15	50	12	$10\frac{3}{4}$	$11\frac{1}{4}$	G'm	6 30	О	11 49
1	11.	_ .	3-		13	0	5	2 9	С	9	17	51	13	$11\frac{1}{2}$	<u> </u>	Cnc	725	О	morn
I	- 1	1	I .		12	0	5	30	С	9	18		0	0	0	Cnc	rises	-	1239
I		∡I.=	u.		12	0	5	32	Ċ	9	19	52	15	$0^{\frac{1}{2}}$	$0\frac{3}{4}$	Cnc	6 51	C	1 28
4	1	- 1 '	V.		12	О	5	33	С	9	21		16	$1\frac{1}{4}$	$1\frac{1}{2}$	Leo	7 48		2 16
I,	1	Į.			12	0	5	34	С	9	22		17	$\frac{2}{2}$	$\frac{2}{2}$	Leo	8 46	E	3 02
	11.				11	0	5		С	9	24	53		$\frac{2\frac{3}{4}}{1}$	$2\frac{3}{4}$	Vir	9 44	F	3 46
	5 1		a. 3-		11 10	0	5	36 37	C 4	9	25	53	19	$\frac{3\frac{1}{4}}{4}$	$\frac{3\frac{1}{2}}{41}$	Vir	10 42		4 29
I.	4.) [].		10		5 5		C	9	27 28	54	$\frac{20}{21}$	4	$\frac{4^{\frac{1}{4}}}{2}$	Vir	11 41	Ι	5 11
	31	-	ր. Ծ		$\frac{10}{09}$	0	Н	40	С	9	30	54 54	$\frac{21}{22}$	$ \begin{array}{c c} 4\frac{3}{4} \\ 5\frac{1}{2} \end{array} $	5 6	$rac{ ext{Lib}}{ ext{Lib}}$	$ \begin{array}{c} \text{morn} \\ 1240 \end{array} $	Ţ	5 54
I	Ha.	- 1	V.		09	0	ш		C	0	$\frac{30}{32}$	55	23	$6\frac{1}{2}$	$6\frac{3}{4}$	Sco	$1240 \\ 142$	J	$\begin{array}{ c c c c c }\hline 6 & 37 \\ 7 & 22 \\ \hline \end{array}$
2.0	′	_ *	h.		08		11		C	q	34	55	24	$7\frac{1}{4}$	$7\frac{3}{4}$	Sco	$\begin{array}{ c c c c c c c c c c c c c c c c c c c$	K	8 10
2	١.	. 12	r.		$\frac{00}{08}$		11		C	9	36	55	$\frac{21}{25}$	$8\frac{1}{4}$	$8\frac{3}{4}$	Sco	$\frac{240}{351}$	M	9 01
2		- 1-	a.		07	0	II		C	9	37	55		9^4		Sgr	$\frac{351}{458}$	N	957
2	١.				06	0	5		$^{\rm C}$	9	39	56	1	10	$10^{\frac{1}{2}}$	$\operatorname{Sgr}^{\sim}$	604		10 56
2		4 N	1 .	8	06	N	5	47	D	9	41	56	28	$10\frac{3}{4}$	$11\frac{1}{4}$	Cap	7 06		11 58
2	5 2	5]	ľu.	8	05	N	5	48	D	9	43	56	•	$11\frac{3}{4}$		Cap	sets	_	1 00
2	5 2	6 V	V.	8	04	N	5	50	Ð	9	46	56	1	$0^{\frac{1}{4}}$	$0^{\frac{1}{2}}$	Aqr	7 17	Е	2 01
2			Ch.		03	N	5		D	9	48	57	2	1	$1\frac{\tilde{1}}{4}$	Aqr	8 32	G	2 59
	3 2				02	N	11		D	9	50	57	3	2	$2\frac{1}{4}$	Psc	9 47	Н	3 55
	2^{2}				01	N	5	53	D	9	52	57	4	$2\frac{3}{4}$	$3\frac{1}{4}$	Psc	11 00	I	4 47
3	3	0 5	3-	8	00	N	5		D	9	54	57	5	$3\frac{3}{4}$	4	Ari	morn	-	5 38
3	1 3	1/1	1.	7	59	N	5	56	D	9	57	57	6	$\frac{1}{4\frac{1}{2}}$	5	Ari	$ 12 \ 09 $	J	6 27
-				te .	-				_	_		-						-	



Though now the light is thin, and the breath frost That all too soon is scattered, The shape broken, the sound too early lost, As though no speaking mattered, It was the body of this breath that passed: The word was, in the beginning, and will last.

×	₩.	Aspects, Holidays, Heights of
A	А	High Water, Weather, etc.
4	Sa.	Circumcision. Tides \[\begin{aligned} \lambda \text{10.0} \\ \text{10.4} \end{aligned} \]
2	В	Con Tides (9.9 then
3	M.	of in Peri. Tides (9.8 signs
4	Tu.	d. 1943 Peri. Tides (9.0 of
5	W.	Tides \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \
6	Th.	距piph. るるC. るのC. YStat. in [9.9]
7	Fr.	6 h C. A. Lawrence Low- 10.0 Damp
8	Sa.	Battle of New Orleans & O.Inf. 10.1 9.7
9	В	list S. af. Epi. Chich 10.1 but not
10	M.	Plow Stat. in Tides 8.7 mild.
11	Tu.	1 CHIBS 1943 (10.0)
12	W.	Lavater $\frac{1}{0.1801}$ Tides $\frac{8.7}{9.8}$ A cold
13	Th.	Laura E. Richards 21 a. a. a.
14	Fr.	SI. Hilary (br-r-r!) & Gr. Hell \ 3.3 spell.
15	Sa.	Herence at Casabianca 14-24, 1943 (3.0)
16	В	20 S.a. Ep. 6 型 C. {8.8 Now
17	M.	Iraq at war w. Con Tides \ 8.5 look
18	Tu.	Tides $\begin{cases} 8.8 \\ 8.2 \end{cases}$ for snow.
19	W.	Robt. E. Lee born 1807 & Stat. in {1.7
20	Th.	Inaugural of 3. Tides 8.2 A mild
21	Fr.	Inaugural of Tides \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \
22	Sa.	SQC. Tides \\ 8.8 begins.
23	В	3rd S.a. Epi. 6 & C. Cruns 10.6
24	M.	Jay P. Moffat, 1943. Al. Woollcott 11.0 d. 43(23) Whitney Warren d. 1943 9.7
25	Tu.	CONV. OI SI. Pall. Occupse Tides 11.0
26	W.	Judge Henry Shute (1n 11.7 Clear
27	Th.	of 1839 Tides {10.2 cold
28	Fr.	Tides \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \
29	Sa.	F.D.R. Con Eq. Tides \\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\
30	B	4th S. a. E. beh'ded 1649 10.5 now.
31	M.	Stalingrad re- occupied 1943 \(\begin{pmatrix} \text{Gr.El.} & \text{Tides} \\ \text{10.8} & \text{9.8} \end{pmatrix}

Farmer's Calendar.

Happy New Year to You!

This is the month to "put your house in order," a month for reflection and planning and resolution. The New Year is as bleak and bare as your fields, now, but it awaits only your sowing. This year especially consider shrewdly your acres and their yield. Measure your gains and losses with an eye to the future.

Catch up on all the loose ends you have had no time for before. Inventory your livestock, your grain and supplies, all your tools and implements. See that all farm machinery is under cover before the big snows of February.

Look to your seeds. they in a safe place, dry and free from mice and rats? Check over your apples in the cold cellar. The first signs of spoilage will show up now. You may want to wrap those prize Macs and Baldwins individually in paper. Leave plenty of air space between your boxes and do not pack them too tightly. Place newspapers between the layers of apples. Are the carrots, turnips and beets well covered with sand? Are your cabbages and squashes in a good dry place, well protected from the cold?

This month your farm is your cellar and your barn. Put them in order.

1944]

FEBRUARY, SECOND MONTH.

ASTRONOMICAL CALCULATIONS.

ė	Days.	0	1	Days.	0	1	Days.	0	/	Uays.	0	1	Days.	0	/
Declination.	1	17s.	16	7	15	30	13	13	34	19		30		9	19
Ĕ	2	16	59	8	15	11	14	13	14	20	11	08	26	8	57
2	3	16	42	9	14	52	15	12	53	21	10	47	27	8	35
امّا	4	16	24	10	14	33	16	12	33	22	10	25	28	8	12
, O	5	16	07	11	14	13	17	12	12	23	10	03	29	7	49
9	6	15	48			54		11	51	24	9	41			

- First Quarter, 1st day, 3 h. 08 m., morning, W.
- O Full Moon, 9th day, 1 h. 29 m., morning, W.
- Last Quarter, 17th day, 3 h. 42 m., morning, E.
- New Moon, 23rd day, 9 h. 59 m., evening, W.

KEY LETTERS REFER TO CORRECTIONS TABLE, PAGE 7, FOR ALL POINTS OUTSIDE NEW ENGLAND. Full Sea, Length D Boston. Morn Even Sets. Sets. Days. m $5\frac{1}{2}$ 17 32 1|Tu.|7|58|N||5|57|D9 59 58 6 Tau L $6\frac{1}{2}$ 757|N||5|59|D222 $10\,01$ 7 Tau 33 8.06 $7\frac{1}{2}$ $7.56 \,\mathrm{M} \,6.00 \,\mathrm{D}$ 9 81 $3 \ 25 \, \text{N}$ 34 10 04 58 G'm 56 $8\frac{1}{2}$ $7.55 \, \mathrm{M} \, 6.01 \, \mathrm{E}$ |10 06|58|10 G'm 4 25 c 35 9 1 10 36 5 Sa. 754M602E10 08 58 11 5 20 o G'm $1011581210\frac{1}{4}10\frac{3}{4}$ $7.53 \, \mathrm{M} \, 6.04 \, \mathrm{E}$ 37 6 11 0 7 M. 38 7.52M605E10 13 58 13 11 11½ Cnc 6 55 0 8 Tu. |751| M |606| E |1016| |58| |14| $|11\frac{3}{4}|$ 7 35 N 39 Leo ||1212 $0^{\frac{1}{4}}$ 9 W. $750 \,\mathrm{M} \,608 \,\mathrm{E}$ 10 18 58 0 01 Leo 12 59 rises 41 10 Th. $748 \,\mathrm{M}609 \,\mathrm{E}$ 10 21 58 16 $0^{\frac{3}{4}}$ 1 Leo $7|37|_{
m F}$ 44 42 11 Fr. |7.47| m|6.10| E 10 23 58 17 1 1/2 $1\frac{3}{4}$ Vir8.35lg 272 $2^{rac{1}{4}}$ 43 12 Sa. 7 46 M612E|10.26|58|18 Vir 9 33 н 10 $2\frac{3}{4}$ 3 744L $||6|13||_{\rm E}$ |10 28|58|19 44 13 S₋ Lib 10.3252 $3\frac{1}{2}$ 45 14 M. 743L ||6|14|F 10 31 58 20 $3^{\frac{3}{4}}$ Lib $11 \ 32$ 43446 15 Tu. 7 42 L $615 \, \mathrm{F}$ 10 34 58 21 4 4ᆌLib 5 17morn 10 36 58 22 47 16 W. 740L |6|17 $4\frac{3}{4}$ $5\frac{1}{2}$ Sco $12|33|_{
m L}$ F 6.03 $5\frac{3}{4}$ 10 39|58|23 48 17 Th. $|7\,39|_{\rm L}$ $||6|18|_{
m F}$ $6\frac{1}{4}$ Sco $1.36 \, \mathrm{M}$ 651737L 49 18 Fr. $6\frac{1}{2}$ $|6 \, 19|$ F 10 42 58 24 7 Sgr $240|_{\rm N}$ 7 43 $7\frac{1}{2}$ 50 19 Sa. 736L $|6|21|_{
m F}$ |10|45|58|2581 Sgr 3 44 0 8 38 81/2 51 20 S. 7.35 L $|6|22|_{\rm F}$ 10|47|58|2691 Cap 4 47 o 9.37 $||6|23|_{
m F}$ 9월 10 733L 10|50|58|27Cap 5 45 o 10.38 $10^{\frac{1}{2}}$ 53 22 Tu. 6 24 F $|7|32|_{\rm L}$ 10 53 58 28 11 Agr $6.37|_{\rm N}$ 39 11 54 23 W. $11\frac{1}{4}11\frac{3}{4}$ $|7\,30|_{
m K}$ $||6|26|_{\rm G}$ |10|56|580 Agr sets 12 39 Psc 55 24 Th. $|7\ 29|$ K $|6\ 27|$ G |10|58|570 $0^{\frac{1}{4}}$ 7 20 G 1 37 $727 \,\mathrm{K} \, 628 \,\mathrm{G}$ 56 25 Fr. 1 $0^{\frac{3}{4}}$ |11|01|571 Psc8 36lr 33 2 $1\frac{1}{2}$ 2 |7|26|K|6|29|G Ari 9 50 J 3 26 58 27 S 17 24 K 6 31 G 3 $2\frac{1}{2}$ 23/ ||11|07|5711 02 K Ari 4 18 $3\frac{1}{4}$ $|7\ 22|$ K $|6\ 32|$ G $|11\ 09|$ 57 $3\frac{3}{4}$ 59 28 M. 4 Tau morn $5\ 10$ 60 29 Tu. 7 21 K 6 33 G 11 12 57 5 41 Tau 12 10 L $4\frac{1}{5}$ 6 01

FEBRUARY hath 29 days.

[1944]



Just now, the sleep of flowers Is lighter . . . is less sound, Is troubled by these showers Drumming above ground, By dreams, the long night through. Of heing white . . . or blue . . .

K.	D.W.	Aspects, Holidays, Heights of
A	A	High Water, Weather, etc.

Farmer's Calendar.

Am. News Co. Tides {1 founded 1864 Clouds and rain Tides $\begin{cases} 10.0 \\ 9.1 \end{cases}$ LookCandlemas. Clouds and rain & & C. \ 8.5 Span. Inq. 60 C. Tides \{ \begin{array}{l} 9.5 \\ 8.8 \end{array} \] for New Orleans of the title 1854 Fr. C runs Tides $\begin{cases} 9.5 \\ 8.2 \end{cases}$ Sa. 5 snow. Septuag. S. & in &. Tides (8.8 6 Winant app't sent Congress 1941 Tides (8.4 Milder M. Tides \ 9.7 Tu. now. E.W.T. hegan & 4 C. \ 8.6 Thawing Normandie in Tides (8.8 weather Lincoln's Birthday Apo. Tides (9.7 weather Lincoln's Birthday Apo. Tides (9.6 cold Hollin parts of N. 8 4 6 .6 cold Georgia Stat. 6 4 C. (9.4 nights. Th. 10 Fr. 12|Sa. Serag. S. Con A. Ford 100 yd. 8.9 (9.1 13 B St. Valentine Arizona Tides \ 8.9 Cloudy Coldest Day ever on Mt. Wash. 1943 \ 8.6 then 14 M. Coldest Day ever on Mt. Wash. 1943 15 Tu. Tides $\begin{cases} 8.9 \\ 8.2 \end{cases}$ 16 W. g in Aph. snow. Auld Deer—the worst day of the year 100° variation temp. Tides $\begin{cases} 8.9 \\ 8.1 \end{cases}$ Th Tides $\begin{cases} 9.1 \\ 8.1 \end{cases}$ Clear 18 Fr. this weekend
Hancock, N. H.
one year ago

Tides \{8.1 Clear\}

8.3 then rain 19 Sa. Quinqua, (Shrove) S. b Stat. in S Q C. (10.5 [20th Cruns 8.9 with Washington's Shrove S V C. 9 in S C. P. Turk S V C. 9 in S C. P. Turk S V C. 9 in S C. P. Turk S V C. 9 in S 20 B 21 M. Tu. Ash Tacd. (in Peri. {11.5 [22nd {11.0] W. Mass. Hort. Soc. $\square \odot \odot \cdot \{1.7 \text{ snow.}\}$ St. Matthias Tides 10.9 Unpleasant get ready for the first run of 25 Fr. C on 26 Sa. Tides $\begin{cases} 11.1 \\ 11.5 \end{cases}$ underfoot. 1st S.in L. Quadrag. Tides (11.1) your seeds. Manure spread on Abe Lincoln toured N. E., 1848 Tides $\begin{cases} 10.8 \\ 10.3 \end{cases}$ 28 M. N. E., 1848
"Mother Ann" Lee born 1736,
founder of the Shakers...
Tradition doth this year report
That maidens are allowed to court {10.4 9.5

Tu.

How about that woodlot? There is no better time to get your wood out on the hard-packed snow. Don't overlook cutting your grey birch. When burned green on a hot foundation, it will keep your fire going all night. Make this your home wood and sell the "better grade" Best way hard woods. t.o handle grey birch is to chop it iu eight to twelve foot lengths, draw it right up to the woodshed, and just pitch it in as you saw it up. You ought to figure now on

not more than six weeks left to get your lumber out on snow. Mud and dirt-covered logs are tough on band saws. Let your fence pinc stand. They may have nails in them.

Time to start pruning the orchards and the grapevines. Put your livestock out in the farmyard in the still sunshine of quiet days, but, generally speaking, cows and stock are better off in young stalls. "Well-wintered is half well-summered." Keep a box of wood ashes in your chicken coop so the hens may dust out the lice. When you have three warm days together, sap

Plan your garden. snow now will melt down with the thaws and do double duty. Have a look at the cider

barrel.

1944]															
ASTRONOMICAL CALCULATIONS.															
d Day	g Days. 0 /														
O's Declination 7 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	7s. 27 7 04 6 40 6 18 5 54 5 31	7 8 9 10 11 12	5 4 4 3 3 3	08 44 21 58 34 10	13 14 15 10 17 18	2 2 1 1 1 0	47 23 59 36 12 48	19 20 21 22 23 24		25 .01 .23 .46 .10 .34	25 26 27 28 29 30	1 2 3 3 3	57 21 44 08 31 54		

- First Quarter, 1st day, 4 h. 40 m., evening, E.

 Full Moon, 9th day, 8 h. 28 m., evening, E.

 Last Quarter, 17th day, 4 h. 05 m., evening, W.

 New Moon, 24th day, 7 h. 36 m., morning, E.

 First Quarter, 31st day, 8 h. 34 m., morning, E.

K	Y LE	TTERS	REFE	R TO	CORR	ECTIC	NS T	ABLE	PAG	E 7.				SIDE NE	V EN	IGLAND.
of of	of nth	of ek	(3)	ey		A	11	ngth of	Sun Slow.	foon's Age		Sea.	D's	D	A	
Day Ye	Da3	Day of the Week	Rise h. n	8. K	Sets	Key		ys. m.	m	MO		Even h.	Piace	Sets.	Key	Souths.
61	1	W.		9 K	110.0		11	$\frac{15}{15}$		6	5	$\frac{1}{5\frac{1}{2}}$	G'm	1 16	IN	6 51
62	$\frac{1}{2}$	Th.	1	8 K		5 G		18		7	6	$6\frac{3}{4}$	G'm	$\frac{1}{2}\frac{1}{18}$		742
	3	Fr.	l .	6 K	11 :		177	21	56		$\frac{0}{7}$	$7\frac{3}{4}$	G'm	$\frac{2}{3}$ 16	1	8 32
63	4		I	- 1	11	7 G 8 н	-	21	56		8			$\begin{array}{ c c c c c c c c c c c c c c c c c c c$		$\begin{array}{c c} 32 \\ 921 \end{array}$
64	5		1 -	- 1	11		11	26 26			9	$8\frac{3}{4}$	Cnc		1	
65	1 -		1 -	- 1	63	- 1	10		56	10		$9\frac{3}{4}$	Cnc	4 54		10 10
66	6	i	$\frac{71}{20}$		64	-	11	29	55	11	$9\frac{3}{4}$	$10\frac{1}{2}$	Leo	5 35		10 56
67	7	Tu.	70	آ آ	64	-	11	32	55	12	$10\frac{1}{2}$	11	Leo	6 11	N	11 42
68	8		70	- 1			11				$11\frac{1}{4}$	$11\frac{3}{4}$	Leo	6 43	M	morn
69	9	Th.	$\frac{70}{70}$		11		11	38			01	0	V.r	rises	-	12 25
70	10	Fr.	$\frac{70}{2}$		64		11	41	54		$0^{\frac{1}{4}}$	$0^{\frac{1}{2}}$	Vir	$\frac{727}{2000}$	H	1 08
71	11	-	$\frac{70}{2}$	- 1	64			44		16	1	$1\frac{1}{4}$	Lib	8 26	1	1 50
72	12	S.	70	- 1	64		111	46	1	-	$1\frac{1}{2}$	$1\frac{3}{4}$	Lib	9 26		2 33
73			65		6 4		11	49		18	$2\frac{1}{4}$	$2^{rac{1}{2}}$	Lib	10 26	1 1	3 16
74	14		65	- 1	65		11	52		19	$2\frac{3}{4}$	$3\frac{1}{4}$	Sco	$11\ 28$	L	4 01
75		W.		6 I	65		11	55		20	$3\frac{1}{2}$	4	Sco	morn	-	4 47
76		Th.		4 I	6 5		11	58		21	$4\frac{1}{4}$	$4\frac{3}{4}$	Sgr	12 31	N	5 37
77		Fr.	1	$2 _{\mathrm{I}}$	65	$3 _{\mathbf{I}}$	$\parallel 12$	01	52	1	5	$5\frac{3}{4}$	Sgr	1 34		6 30
78		Sa.	65	1 1	65		$\parallel 12$	04	52	23	6	$6\frac{3}{4}$	Cap	235	0	7 25
79	19	S.	64	$9 _{\mathbf{I}}$	65		12	07	52	24	7	$7\frac{3}{4}$	Cap	3 33	O	8 23
80	20	M.	64	7 1	65	7 1	12	09	52	25	$8\frac{1}{4}$	$8\frac{3}{4}$	Cap	4 26	N	9 22
81	21	Tu.	64	$5 _{\rm I}$	6 5		$\parallel 12$	12	51	26	$9\frac{1}{4}$	$9\frac{3}{4}$	Aqr	5 13	$ _{\mathbf{M}}$	10 21
82	22	1	6 4	4 I	6 5	$9 _{\mathbf{I}}$	$\parallel 12$	15	51	27	10	$10^{\frac{3}{4}}$	Aqr	5 54	L	11 18
83	23	Th.	64	2I	70	0 I	$\parallel 12$	18	51	28	11	$11\frac{1}{2}$	Psc	6 32	K	$12 \ 15$
84	24	Fr.	64	0	7 0	11	12	21	50		_	0	Psc	sets	-	1 09
85	25	Sa.	63	8 н	70	2 ј	12	24	50	1	$0^{\frac{1}{4}}$	$0^{\frac{3}{4}}$	Ari	8 37	K	2 03
	26	S.	63	$7 _{\rm H}$	70	3Ј	12	27	50	2	14	$1\frac{1}{2}$	Ari	9 50		2 56
87	27	M.	63	$5 _{\rm H}$	7 0	5 J	12		49		2	$2\frac{1}{2}$	Tau	10 59	1	3 49
88	28	Tu.	63	$3 _{\rm H}$	7 0	6 J	12	32	49			$3\frac{1}{4}$		morn		4 42
89	29		63		I = 0		12			ſ	$3\frac{3}{4}$	41/4	G'm	1		5 34
90	۰.			0 H	11		12	38	1	1		51	G'm	1 07	0	6 26
QI	31	Fr.		8 н			12		48		$5\frac{1}{2}$	$6\frac{1}{4}$	$\widetilde{\operatorname{Cnc}}$	$\frac{1}{2}03$		7 16
1	1		1			-			1		1 2	1 4	0110			10

MARCH hath 31 days.



Wing-tip and wing-blade are here...]
Now...at their mowing,
And the old shapes of the year
Fall from the heart's knowing:
The winter darkness, the fear
Are strewn behind this going
Of birds that bring, again,
More than themselves to men.

M.	₩.	Aspects, Holidays, Heights of High Water, Weather, etc.
	A	
1	W.	St. David. C. J. Swan & & C. \{\begin{align*} \) 1935 & & C. \{\begin{align*} \} \\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \
2	Th.	Pope Leo XIII b. 1810 & C. 6 2 C. 6 2 C. 8.8 Houston Dayin Texas & J. C. 6 8.8
3	Fr.	icebound 1907 Tides \{8.0 pleasant
4	Sa.	Barnum purch. Cruns Tides (7.9 spell.
5	Α	2nd S. in L. Seen any (9.0 Windy)
6	M.	Tides $\begin{cases} 9.1 \\ 8.8 \end{cases}$ and rain.
7	Tu.	5240.68 %. Tides \\ 8.6
8	W.	\$\text{Gr. Hel. on Tides \bigg\{\frac{9.4}{8.9}} Stor-
9	Th.	Maple sap's runnin'. Tides $\{9.5 my.\}$
10	Fr.	Purim. Blizzard D b O. δΨ. (9.1 9.6)
11	Sa.	Lend Lease ren. 1943 on 19.2 (9.6 billion spent 2 yrs. prev.) Eq. 19.6
12	Α	3rd S. in Lent. Tides (9.8 Colder
13	M.	J. P. Morgan $\Box \ \delta \ \odot$. Tides $\{9.4, 4.1943\}$
14	Tu.	Tides (9.3 Wind 180 mph Mt. and Wash, 1943 (10th)
15	W.	Income Taxes Tides \{ \frac{9.8}{8.6}}
16	Th.	Tides (9.8 clearing.
17	Fr.	St. Patrick. $6 \ \bigcirc^{\operatorname{Sup}_{\bullet}}$ Tides $\{^{9.2}_{8.2}\}$
18	Sa.	1st Eng. bombs on Nazi land Cruns 19.8
19	Α	12th S. in W. Floods Miss. 19.5 Look
20	M.	hegina Oters Oreshipp gseason (9.8)
21	Tu.	St. Benedict. Swallows arr. (10.8 for
22	W.	Ens. Warmerdam pole of C. \\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\
23	Th.	8 Ψ O. C in. Tides \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \
24	Fr.	Sec. Con I saw a line storm.
25	Sa.	Annunc. or Lady Day. Maryland 11.8
26	Α	5th S. in Lent. Tides \\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\
27	M.	Japan withdrew to In S. {11.8 Fine.
28	Tu.	Paph. 66 C. Tides {11.0
29	W.	Swedenborg & h C. {10.4 Possibly
30	Th.	Sicilian Vespers Holiday 6 & C . \ \bigg\{ \frac{9.8}{8.6}}
31	Fr.	Peri Chigh. Tides \{\begin{array}{l} 9.8 \\ 8.1 \end{array} it rains.

Farmer's Calendar.

1944

Start shedding, but hang on to the red flannels. If it turns real warm for a spell, let ma at your back with the cow brush.

If you haven't got the old sap house purring by this time, you never will. When you're done sugaring, stack your buckets in a dry place. Clean out all your equipment. Figure now on getting the wood you will need for next sugaring off.

This is the best month to split wood. Crows shoot easier now than later on. Checkerberries never taste better than when the snow is just off them. Take the prunings from your heavy blossom branches and put them in a bucket of water in the south window-blossoms for Easter.

Look out for grass fires. Burn no rubbish in fields next to your barns. But this is still a good time for burning slash in the woods-if the snow is still plentiful.

Don't let your lambs suffer from drafty barns and sud-"March lambs den freezes. have a better start, but April lambs bring the best wool."

Town meeting. Go there "agin" something, and for something, and say something.

No better tonic this time of year than the sun and the wind. January and February are the time for dosing-and dozing.

1944]

APRIL, FOURTH MONTH.

ASTRONOMICAL CALCULATIONS.

-															
a	Days.	0	1	Days.	0		Days.	0	1	Days.	0		Days.	0	F
Declination.	1	4 N	.41	7	6	58	13	9	10	19	11	18	25	13-	18
in 3	2	5	04	8	7	20	14	9	32	20	11	38	26	13	38
S	3	5	27	9	7	43	15	9	54		11	59	27	13	57
A	4	5	50	10	8	05	16	10	16		12	19	28	14	16
8,	5	6	13	11	8	27	17	10	36		12	39	29		
9	6	6	35	12	8	49	- 18	10	57	24	12	59	30	14	53

O Full Moon, 8th day, 1 h. 22 m., evening, E.

C Last Quarter, 16th day, 12 h. 59 m., morning, E.

New Moon, 22nd day, 4 h. 43 m., evening, W.
First Quarter, 30th day, 2 h. 06 m., morning, W.

J FIRST QUALTET, SOUTH day, Z in. OO III., INOTHING, W.

KEY	LET					OR	RECT	ION:	TAE	BLE.	PAGE	E 7.	FOR A	LL POI	NTS OUT	SIDE NEV	/ EN	GLAND.
Day of Year	Day of Month	Day of the Week	I	Elses.	Key	S	ets.	Key		gth lys. m.	a Sun	Moon's	Full Bos Morr h.	Sea, ston. Even		Sets.	Key	Souths.
92	1	Sa.	6	26	Н	17	10	J	12	44			$6\frac{1}{2}$	71/4	Cnc	2 52	0	8 06
93	2	S	$\ddot{6}$		н	7	11	J	1	47	48	1	$7\frac{1}{2}$	$8\frac{1}{4}$	Cnc	3 35	4 .	8 53
94	10	M.	6		Н	7	$\overline{12}$	K	12	50	47	10	$8\frac{1}{2}$	9	Leo	4 13		9 39
95	4	Tu.	6		G	7	14		12	52	ł .	11	$9\frac{1}{4}$	$9\frac{3}{4}$	Leo	4.46		1 0 00
96	5	W.	6		G	7			12			12	10	$10\frac{1}{2}$	Vir	5 16	9	11 06
97	6	Th.	6		G	7	16	K		58			$10\frac{3}{4}$	$11\frac{1}{4}$	Vir	5 43		11 48
98	7	Fr.	6		G	7	17	K				14		$11\frac{3}{4}$	Vir	6 09	Į I	morn
99	8	Sa.	6		G	7	18		13					0	Lib	rises		12 31
100	9	S.	6	13	G	7	19	К	13	06	46	16	$0\frac{1}{2}$	$0\frac{3}{4}$	Lib	8 19	K	1 14
101	10	M.	6	11	G	7	20	K	13	09	45	17	1	$1\frac{1}{4}$	Sco	9 22	L	1 59
102	11	Tu.	6	09	G	7	21	К	13	12	45	18	$1\frac{1}{2}$	2^{\uparrow}	Sco	10 25	м	2 45
103	12	W.	6	08	G	7	2 3	K	13	15	45	19	$2rac{ ilde{1}}{4}$	$2\frac{3}{4}$	Sgr	11 28	N	3 34
104	13	Th.	6	06	G	7	24	К	13	18	45	20	3	$3\frac{1}{2}$	$\widetilde{\operatorname{Sgr}}$	morn		4 26
105	14	Fr.	6	04	F	7		K	13	20	44	21	$3\frac{3}{4}$	$4\frac{1}{2}$	Sgr	$12\ 30$	О	5 20
106	15	Sa.	6	03	F	7	2 6	L	13	23	44	22	$4\frac{3}{4}$	$5\frac{1}{2}$	Cap	1 28	О	6 16
107		S.	6	01	F	7	27	L	13		44	23	$5\frac{3}{4}$	$6\frac{1}{2}$	Cap	2 21	О	7 13
108		M.		00	F	7		L	13		l .	24	$ 6\frac{3}{4} $	$7\frac{1}{2}$	Aqr	3 09	\mathbf{N}	8 10
109			1	58	F	7	2 9	L	13			25	$7\frac{3}{4}$	$8\frac{1}{2}$	Aqr	3 51	M	9 06
110		1 1	5		F	7	-	L	13	34		26	$8\frac{3}{4}$	$9\frac{1}{2}$	Psc	4 28	K	10 01
III	20	Th.	5		F		32	L	13	37		27	$9\frac{3}{4}$	$ 10^{\frac{1}{4}} $	Psc	502	J	10 55
112	21	Fr.	5		F	7	33	L	13	39		28	$10\frac{3}{4}$	$11\frac{1}{4}$	Ari	5 35	I	11 48
113	-	Sa.	5		F	7	34	L	13	42			$11\frac{1}{2}$		Ari	sets	-	12 41
114	I	S.	5		E	7	35	L	13	45	1	0	0	$0^{\frac{1}{2}}$	Tau	8 37	M	1
115	24	M.	5		E	7	36	М	13		42	1	$0^{\frac{3}{4}}$	$1\frac{1}{4}$	Tau	9 46		2 27
116	1		1	47	E	7	37	M	13	50	12	2	$1\frac{1}{2}$	2	G'm	10 52	1	3 21
	0		5		E	7		М	13		42	3	$2\frac{1}{2}$	3	G'm	11 52	0	4 15
	00	Th.	5		\mathbf{E}_{-}	ŧ	-	M	13	55		4	$3\frac{1}{4}$	$3\frac{3}{4}$	$ \operatorname*{Cnc} $	morn	-	5 07
			5		Е		41	M	13	57	41	5	4	$4\frac{3}{4}$	Cnc	$12\ 46$	1	5 58
120		Sa.	1			I	42	M	4 4	00	41	6	5	$5\frac{1}{2}$	Cnc	1 32		6 47
121	30	S.	5	40	E	ļ7 	43	М	14	02	41	7	$5\frac{3}{4}$	$6\frac{1}{2}$	Leo	2 13	0	7 34

APRIL hath 30 days.

F1944



Think how ... and this, so little while ago ... Earth's face was not a thing to look upon With pleasure ... it was everywhere a frown: In country places, in the streets of town ... See, now, in this slow nearing of the sun, Larth smiles, is everywhere a friend we know, In country places, in the quickened street. In faces that we meet.

D.M.	D.W.	Aspects, Holidays, Heights of High Water, Weather, Etc.
1	Sa.	All Fools Day. Tides (8.9 Clear
2	Α	Palm S. Sixth Tides (8.7 with
3	M.	6 4 C. Tides (8.2 - cold
4	Tu.	Hat st les called for Apo. Tides (8.8 8.5
5	W_{\cdot}	T. J. McCabe Tides (9.0 winds. 4.1943
6	Th.	Maundy Army Tides $\begin{cases} 9 & 2 \\ 9 & 2 \end{cases}$
7	Fr.	Good Friday. SW C. C Fo. 184
8	Sa.	Pesach Bataan, Tides (9.5 Warmer
9	Α	Easter S. St. Mark. Tides (9.6 with)
10	M.	\(\begin{aligned} \text{Gr. H. R. Sears d.} \\ \text{1.N. 1943 (8th)} \end{aligned} \text{Tides \big(\frac{9.8}{9.4} \ rain.} \end{aligned} \)
11	Tu.	India rej. Cripps Tides (9.9 prop. 1942.
12	W.	Holiday in & Gr. El. Tides [9.9 Cool
13	Th.	Thos. Jefferson b. 1748. Hol. in parts of South. Hol. in Parts of South. Hol. in Parts of South.
14	Fr.	Pan-American a Rui. 8 19.7 Clearing
15	Sa.	Swallow Day—Sardines running Eastport, Me. Tides \$ 96 8.4
16	1	Low S. 1st af. E. Geese wing- {9.5} ing north. {8.5
1	M.	Hear any Tides (9.6 A
1	Tu.	Holiday Tides (9.8)
1	w.	Ba tle of Lexington, 1775 OGr. Hel. [10.1]
20		
	Fr.	Holiday 100 Con (10.8 snell)
	Sa.	Texas. Tides \\ \frac{10.9}{2} now.
	A	2nd S. af. H. St. George. 6 & C. {11.4 10.8
1	M.	Maple sap's Gr. Hel. (11.6 Showers all over. Lat. N. (10.5 Showers
25		Mark— 120 Tides 111.0
	W.	Major Rogation Oct. 110.1 Bk. Eng. Holiday—Ala., Apr. 10.9
27	1	Bk. Eng. Holiday—Ala., 6 10.9 10.9 10.9 10.9 10.9 10.9 10.0 10.0
	Fr.	Mars 116 Tides (o o
	Sa.	conceived. Tides \{ \begin{align*} \begin{align*} & \text{Fine.} \\ & \text{Fine.} \end{align*}
30	4	3rd \$5. a. Ea. 64 C. Tides (8.0

Farmer's Calendar.

Out early and in late. Let John-o-Dreams sleep on his bank, but spring fever plows no furrow.

Look now to the setting out of your young trees, digging the holes wide and loosening all soil about the edges. Mulch your strawberries with good oat straw. Plant your peas when you can work the soil.

While you wait for the land to dry out for the spring plowing, mend fence and walls, and set the boy to cleaning up the lawn and the yard. If you haven't piled the prunings from the fruit trees, do so now, or they will lie there all summer. When the land is firm, haul them to the old cellar hole for burning.

Before buds swell too much, apply a dormant spray to lilacs and fruit trees against scale. Use lime sulphur or an oil spray.

Despite April showers, windy days will dry brush lands and grass. Watch out for fire. If the grass is high around your barns, plough two or three furrows around them.

And now, Mother, while the men folk go prancing around the farm, look to your clothes closets. The world is full of moths.

Nobody will want April, 1943 back again.

1944] MAY, FIFTH MONTH. ASTRONOMICAL CALCULATIONS. 0 Days. Days. Days. Days. Days. O's Declination. 16 55 18 28 18 43 21 01 1 2 3 4 15N.11 7 13 19 19 50 25 29 15 8 17 11 14 20 20 03 26 21 11 21 15 47 9 17 27 15 18 57 21 20 15 27 21 22 16 04 10 17 43 16 19 11 20 27 28 21 31 5 6 21 38 19 24 19 38 $\begin{array}{c} 23 \\ 24 \end{array}$ 16 11 17 58 17 20 39 29 21 40 16 12 18 13 18 20 50 30 21 49

- O Full Moon, 8th day, 3 h. 28 m., morning, E.
- C Last Quarter, 15th day, 7 h. 12 m., morning, W.
- New Moon, 22nd day, 2 h. 12 m., morning, E.
- First Quarter, 29th day, 8 h. 06 m., evening, W.

KE	Y LET	TERS 1	REF							BLE,					NTS OU				 IGLAN	ID.
Day of Year	Day of Month	Day of the Week	R h.	ises. m.	ey		ets.	Key	Le	1.	B Sun.	A 000	t Full	Sea, ston. Ever h.	170 20	s	D ets.	Key		D uths m
122	1 4	M.		39	E	17	44	M	14	05	41		$16\frac{3}{4}$	75	Leo	12	47	N	8	19
123	2	Tu.	5	38	D	17	45			07			73	$8^{\frac{1}{2}}$		3	18	L	9	03
124	3	W.	5	36	D	7	46	N	14	10	41	10	$\begin{vmatrix} 7\frac{3}{4} \\ 8\frac{3}{4} \end{vmatrix}$	$9^{\frac{1}{4}}$		3			9	45
125	4	Th.	5	35	D	7	47	N	14	12	41	11	$9\frac{1}{2}$	$9\frac{3}{4}$		4	13	J	10	27
126	5	Fr.	5	34	D	7	48	N	14	15	41	12		$10^{\frac{1}{2}}$	Lib	4	38	I	11	10
127	6		5	32	D	7	49	N	14	17	41	13	11	114	Lib	5	04		11	54
128		S.		31		7	50	N	14	19	40	14	$11\frac{1}{2}$		Sco	5	33	G	mc	orn
129				30						22	40	0		$0^{\frac{1}{4}}$	Sco	ris	es	-	12	41
130	1	Tu.		29			53			24			$0^{\frac{1}{2}}$	1	Sco	9	21	N	1	29
131				28						26			$1\frac{1}{4}$ $1\frac{3}{4}$	$1\frac{3}{4}$		10	24		2	21
132		Th.		26		7	55	N		28	40	18	$1\frac{3}{4}$	$2\frac{1}{2}$	Sgr	11	25	o	3	16
	12			25			56					19	$2^{rac{1}{2}}$	$3\frac{1}{4}$		mo	orn	-	4	12
				24			57			33			$3\frac{1}{2}$		Cap	12	20	o	5	09
		S.			_	1 5	58	, ,	1	35	1	1 1	$4\frac{1}{4}$	5	Aqr	1	09		1	06
136			3	22			59		4	37	t .	22	$5\frac{1}{4}$	6	Aqr	1	52	M	I .	01
		Tu.		21	C	1	00	0	1	39		23	$6\frac{1}{2}$		Psc	2	29	\mathbf{L}		55
_		W.		20	C	1 -	01	0	14			$\frac{24}{2}$	$7\frac{1}{2}$		Psc	3	03			48
		Th.	5	19				0	14		l .	: 1	$8\frac{1}{2}$	9	Ari	3	35			39
				18			03			45	l .	$\frac{26}{27}$	$9\frac{1}{2}$	10	Ari		06			30
1 .	1 1	- 2					04		14			$\frac{27}{22}$	$10^{\frac{1}{2}}$	$10\frac{3}{4}$			38		11	22
142				17			05			48		28	$11\frac{1}{4}$	$11\frac{3}{4}$	Tau		13	E		14
143				16		,	06			50		9	-01	$0^{\frac{1}{4}}$	Tau			-]		08
		Tu.		14					1	52		1	$0^{\frac{1}{2}}$	1	G'm		38		6	02
145				40		1	08			54		2	$1\frac{\tilde{1}}{4}$	$1\frac{3}{4}$	G'm					56
140	1 1			40	Į.	1	09	0	1	55		3	$\frac{2}{2}$			11				48
147				$\frac{13}{12}$		1	10	P		57	_	4	$2\frac{3}{4}$	$\frac{3^{1}_{4}}{4^{1}}$		mo	- 1			39
140				11		1.0	$\frac{10}{11}$			58		5	$3\frac{1}{2}$	$4\frac{1}{4}$		12				28
150				11			$\frac{11}{12}$				41	6 7	41	5	Leo	12		N	6	14
		Tu.			- 4		13	- 1		$\frac{01}{03}$	41	8	$\frac{5\frac{1}{4}}{6}$		Leo	1	20	M		58
		W.								04		9	$\begin{vmatrix} 6 \\ 7 \end{vmatrix}$	$\frac{6\frac{3}{4}}{7^1}$	Vir		49	L		41
-54	OI		J	10)	D	0	II	r	10	UL	14	0	1	$7\frac{1}{2}$	Vir	2	15	K	8	23

MAY hath 31 days.





Such brave, immoderate shining is here now, Whitening the orchard hill, the singular tree, Obscuring the black shape, the angular bough, . . The mind must ponder what it means to be So strong in secret self there is enough Of strength for this unhoarded waste of love.

	D.C			High '	Wat	ter, We	eather, etc.	
i	1	M.	St.	Philip &	St.	James.	Coal strike 1943	{8. 8.
1		rm	1 .	V 0-		- in		Č

Aspects, Holidays, Heights of

Farmer's Calendar.

Your garden should be under way now—beans, carrots, parsnips and tomato plants. Your carly peas, if the season has been kind, are showing progress.

The pigs can take care of the last of the turnips and carrots that are sprouting in

the cold cellar.

As the month comes watch the apple blossoms swell, and as it goes out, look for first signs of caterpillars on your fruit trees and on wild cherries. Apply apple Apply apple sprays, the pre-pink and the pink. An ounce of prevention is worth a pound of cure. For your pre-pink (when the buds are rabbit-eared), a good mixture is two gallons of liquid 100 gallons sulphur in water (for scab), with two or three pounds of arsenate of lead added (for caterpillars and other chewing insects), and eight pounds of hydrated lime (to prevent burning).

For pink spray (when buds show pink) use the same formula. It is a good plan to add a small amount of nicotine—34 of a pint to 100 gallons.

Handle tent caterpillars by direct methods. Gct out your tallest ladder and pull the nest off the trees. Best time for this is dusk and early morning when the varmints are in their nests. Squash them between gloves or under your heel.

Pasture fences won't wait fixing much longer.

Tides $\begin{cases} 8.4 \\ 8.8 \end{cases}$ Fu. K & O Inf. (ADO. Tides $\begin{cases} 8.5 \\ 8.7 \end{cases}$ Invention of Rainythe Cross Vin & . Holiday Rhode Island. (8.7) SAC. Tides $\begin{cases} 8.9\\ 9.4 \end{cases}$ Mackerel for CEq. Fr. Corregidor, 1942. Tides $\begin{cases} 9.1 \\ 9.8 \end{cases}$ 6 Sa. Tunis 1943 4th S.a. 距a. Tides $\begin{cases} 9.3 \\ 10.0 \end{cases}$ Α Am. Bible Soc. **□** #0. M. {9.4 spell fd. 1816. Tides { 10.2 Scup off the Tu. then Vineyard. San Francisco Holiday, N. Car., S. Car. {10.4 9.8 W. Th. Tides $\begin{cases} 10.8 \\ 9.0 \end{cases}$ Tuns Tides (10.8 9.0 Boston Transcript "folded" May

10 tn, 1941).

Mother's in Stat. (10.0
Day. Aph. in R.A. 8.9
Cleveland clinic hosp. fire, 1929.

10 the state of the Fr. May 13 Sa. (14th, 1941). Rog.S. Α 15 M. Minor Tides ${9.7 \atop 9.8}$ 16|Tu. rogation {9.7 9.7 Burma monsoon Cerl. W. 17days. hegins. Ascension Bay. Con (9.8 full 18|Th. Dark Day, 1780. Tides $\begin{cases} 10.0 \\ 10.8 \end{cases}$ 19 Fr. moon. Haking season, Holiday, 6 \$ C. \bigg\{\) 11.1 Me. coast. N. Car. 20|Sa. Sun. a. As. 69C. (11.2 Unsettled A Coffee 1st used 6 C. \{10.1 weather M. England, 1652.6 Mexico decl. war (22), 1942. Tides {11.1 9.6 6 h (. Tides [11.8 Tu. M. Kopernik d. 1943 24 W. now Th. 26 Fr. Sa. 30th (8.4 IM. Tu.

1944]

JUNE, SIXTH MONTH.

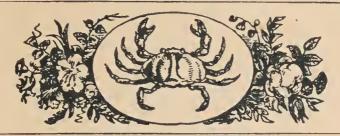
ASTRONOMICAL CALCULATIONS.

a	Days.	0	1	Days.	0	1	Days.	0	1	Days.	0	1_	Days.	0	1
Declination	1	22×	.06	7	22	47	13	23	14	19	23	26	25	23	23
ng	2	22	14	8	22	53	14	23	17	20	23	26	26	23	21
l Sc.	3	22	21	9	22	58	15	23	20	21	23	27	27	23	19
Ã	4	22	28	10	23	02	16	23	22	22	23	26	28	23	16
on .	5	22	35	11	23	07	17	23	24	23	23	26	29	23	13
9	6	22	41	12	23	11	18	23	25	24	23	25	80	23	09

- O Full Moon, 6th day, 2 h. 58 m., evening, E.
- New Moon, 20th day, 1 h. 00 m., evening, W.
- First Quarter, 28th day, 1 h. 27 m., evening, E.

KEY LETTERS REFER TO CORRECTIONS TABLE, PAGE 7, FOR ALL POINTS OUTSIDE NEW ENGLAND.

Day of Year	Day of Month	Day of the Week	(R	ises.	Key		ets.	Key	Len 0 Da	gth f	Sun Slow.	oon's	Full Bos Morn h.	Sea, ton.	D's	Se	D -	Key	Sou	D iths.
N N	ZD		h,	m.	H	D.	m.		Jh.						Place	h.	m.	14	h.	m.
153	1	Th.	5	09	В	8	15	\mathbf{P}	15	05	42	10		$8\frac{1}{2}$	Lib	[2]	41	J	9	05
154	2	Fr.	5	09	В	8	15	Р	15	07	42	11	$8\frac{3}{4}$	$9\frac{1}{4}$	Lib	3	06	I	9	48
155	3	Sa.	5	08	В	8	16	Р	15	08	42	12	$9\frac{1}{2}$	10	Lib	3	33	G	10	33
156	4	S.	5	08	В	8	17	P	15	09	42	13	$10\frac{1}{4}$	$10\frac{1}{2}$	Sco	4	02	F	11	21
157	5	M.	5	08	В	8	17	Р	15	10	42	14	11	$11\frac{1}{4}$	Sco	4	35	E	mo	orn
158	6	Tu.	5	07	В	8	18	P	15	11	43	0	$11\frac{3}{4}$		Sgr	ris	es	-	12	12
159	7	W.	5	07	В	8	19	P	15	12	43	16	0	$0^{\frac{1}{2}}$	Sgr	9	16	0	1	07
160	8	Th.	5	07	В	8	19	P	15	13	43	17	$0^{\frac{3}{4}}$	$1\frac{1}{4}$	Cap	10	15	0	$\parallel 2$	04
161	9	Fr.	5	06	В	8	20	P	15	14	43	18	$1\frac{1}{2}$	$2\frac{1}{4}$	Cap	11	08	0	3	02
162	10	Sa.	5	06	В	8	21	Р	15	14	43	19		3	Aqr	11	53	N	4	01
163	11	S.	5	06			21		15	15	43	20	$3\frac{1}{4}$	$3\frac{3}{4}$	Aqr	mo	rn	-	4	58
164	12	M.	5	06	В		22		15	15	44	21	4		Psc	12	33	L	5	52
165	13	Tu.	5	06	В				15	16	44	22	5	$5\frac{3}{4}$	Psc	1		K	6	45
166	14	W.	5	06	В	11	22		15	17	44	23		$6\frac{3}{4}$	Psc	1	39	J	7	36
167	15	Th.	5	06		11	23		15	17	44	24	71/4	$7\frac{3}{4}$	Ari	2	09	Ι	8	26
168	1 (5	06			23		15	17	45	25		$8\frac{3}{4}$	Ari	2	40	G	9	16
169			5	06	A		24		11		45		$9\frac{1}{4}$	$9\frac{3}{4}$	Tau		12	\mathbf{F}	10	07
170	18	S.	5	06	Α		24				45		$10^{\frac{1}{4}}$	$10^{\frac{1}{2}}$	Tau	3	47	E	10	59
	19			06			24		15			1	11	$11\frac{1}{4}$	G'm		25	С	11	52
		Tu.			3		24		15					0	G'm	se	ts	-	12	45
173			5	07	A		25		15				0	$0^{\frac{3}{4}}$	Cnc	9	18	P	1	38
174			5	07	A		25		l f		46	1	$0^{\frac{3}{4}}$	$1\frac{1}{2}$	Cnc	10	05	0	$\parallel 2$	30
175	23		5	07	A		25		15	18	46	2	$1\frac{1}{2}$	$2\frac{1}{4}$	Cnc	10	45	0	3	20
176				07			25		15		46	3	$2\frac{1}{4}$	$2\frac{3}{4}$	Leo	11	20	N	4	07
177			L	08			25		15	18	1	4	3	$3\frac{3}{4}$	Leo	11	50	L	4	53
178				08	_		25		15	17	47	5	$3\frac{3}{4}$	$4\frac{1}{2}$	Vir	mo	rn	-	5	36
179				08		1	25		15	17	47	6	$4\frac{1}{2}$	$5\frac{1}{4}$	Vir		18	K	6	18
180		1	4	09	_		25		15	16	12.	7	$5\frac{1}{2}$	6	Vir	12	43	J	7	00
181				09	_		25		15	16	1	8	T .	$6\frac{3}{4}$	Lib	1	09	I	7	42
182	30	Fr.	5	10	В	8	$\frac{25}{}$	P	15	15	47	9	$7\frac{1}{4}$	$7\frac{3}{4}$	Lib	1	34	Н	8	25



Who would believe, beneath this indolence Of summer fields, now drowsing in the sun, What hid, wild storm is raging, what intense And intricate lusts, what nameless deeds are done, That the tall wheat, all golden and grave and fair, Might sway in the sun, write grace upon the air.

Now

ı	2	Fr.	Dutch Harbor bombed, 1942. Tides \{8.5 comes\}
ı	3	Sa.	Holiday in South (part of). Tides \{8.7 \ 9.6 \ some
ı	4	Α	Trinity Sun. & Gr.Hel. \ 18.9 real
I	1	M.	Battle of Midway, $\Diamond \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ $
ı	6	Tu.	Tides (9.8 Kermit Roosevelt weather.
i	7	W.	Tides {10.7 Rain
ŀ	8	Th.	COIDES Christi. 42° Cruns Tides 10.9 is
ľ	9	Fr.	Laurel blooms. Tides {11.0 expected.
ļ	10	Sa.	Boston Marine Soc. Tides 10.9
ľ		A	lst. S. af. T. St. Barnabas. Cperi. (10.7)
ı			Winter how Inam Stat (10.4 mg
ı	12	HYL.	Now Zeeland Win B 1 105 hunder
		M. Tu.	Winter beg. in W Stat. 10.4 Thunder New Zealand. Vin R.A. 9.5 Thunder McArthur Tides 10.0 then
	13	Tu.	McArthur Tides \\ \frac{10.0}{9.6} \ then
	13 14	Tu. W.	McArthur Tides (10.0 then Day. Flag Con Tides (9.7 seasonable)
	13 14 15	Tu. W. Th.	McArthur Tides (10.0 then Day. Tides (2.7 seasonable St. Bernard Holiday Q in Q. (10.0 line)
	13 14 15 16	Tu. W. Th. Fr.	McArthur Tides \\ \begin{align*}{0.0} & then \\ \text{Plag} \text{Day.} & \text{Con.} & \text{Tides} \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\
	13 14 15 16 17	Tu. W. Th. Fr. Sa.	McArthur Tides (10.0) then Flag Con. Tides (9.7 seasonable St. Bernard Holiday Q in Q. (10.0) Tides (9.4 A. Bushnell weather for Battle Bunker Hill, 6 \$\foatigma\$ 5. [0.6 all
	13 14 15 16 17 18	Tu. W. Th. Fr. Sa. A	McArthur Tides \\ \begin{align*}{0.0} & then \\ \text{Play} & \begin{align*}{c} \text{Con} & \text{Oay} & \text{Con} & \text{Oay} & \text{Con} & \text{Oay} & \text{Con} & \text{Oay} & \text{Oay} & \text{Con} & \text{Oay} & \te
	13 14 15 16 17 18 19	Tu. W. Th. Fr. Sa. A	McArthur Day. Flag Con Tides \{ \begin{align*}{0.0} \text{then } \\ \text{Pag} \tag{\circ} \text{Con } \\ \text{Tides } \{ \begin{align*}{0.0} \text{then } \\ \text{Pag} \tag{\circ} \text{Con } \\ \text{Tides } \{ \begin{align*}{0.0} \{ \begin{align*}{0
	13 14 15 16 17 18 19 20	Tu. W. Th. Fr. Sa. A	McArthur Tides \\ \begin{align*}{0.0} & then \\ \text{Play} & \begin{align*}{c} \text{Con} & \text{Oay} & \text{Con} & \text{Oay} & \text{Con} & \text{Oay} & \text{Con} & \text{Oay} & \text{Oay} & \text{Con} & \text{Oay} & \te

Hitler in Russia, 1941 δ Qh. 10.7 [21st \ \frac{10.9}{9.3} [22nd \ \pi\phi\phi]. \ \phi\$ in \mathbb{G} . Tides \ \frac{10.4}{9.3}

St. John Baptist & J. C. & 4 C. \ \frac{10.1}{8.9}

3rd. S. af. T. Tides (8.7 hot spell.

Cooler

Aspects, Holidays, Heights of High Water, Weather, etc.

Tides $\begin{cases} 8.8 \\ 8.8 \end{cases}$

Th. Nicomede. Can

BEGINS. Hitler in

born.

Brigham Young murd, 1844 (27th).

29 Th. St. Peter & St. Paul. Tides \ 8.3 30 Fr. Darned chilly month, Tides $\begin{cases} 8.2 \\ 8.9 \end{cases}$ rain.

1897

This month's always the weather vane for the summer. Summer copies June.

23 Fr.

24 Sa.

26 M.

25 A Farmer's Calendar.

This is the month for bees the heavy, sweet month—with much of the promise and the failure of the crop year in it. Discount your apple blossoms in late May or June unless the weather is right for the bees to pollinate. Damp weather may stormy linate. and quarter your possible crop.

Now is the time for a good weeding in the gardens. Weeds pull more easily after a rain, but get them out of the garden fast. They root if piled or are scattered be-tween rows. Weeds hoed in the hot sun will be killed. Thin your garden stuff now. You will get twice the yield if you do.

Start that compost heap. See your finished heap not more than six feet long and four feet wide. Start the bottom layer with coarse, longfibred matter such as poke weed (well cut up) or, later on, corn stalks. On this generous layer put good freshmanure of any kind to the depth of three or four inches. Then pile on lawn cuttings and any disease free vegetable table cuttings (no weeds). Sprinkle with agricultural lime, boncmeal or commercial fertilizer. Repeat the process with alternate layers as de-scribed. The heap should not be over five feet high, with a concave center, to catch and hold moisture. Heap should be ready for fall usc.

Hail shells fell at Silver Lake, N. H. June 28, 1942.

194	44]		JU	LY,	S	EVENT	CH	Mo	NTH.					
			ASTR	ONO	MI (CAL C	AL	CUI	LATIO	NS.				
ä	Days.	0 /	Days.	0	1	Days.	0	1	Days.	0	1	Days.	0	1
Declination	1	23n.05	7	22	33	13	21	47	19	20	47	25	19	35
ing	2	23 01	.8		27	14	21	38	20		36	26		
700	3	2 2 56		22	19	15	21	29	21		25	27 28		09
	5	22 51 22 46	10	$\frac{22}{22}$	$\frac{12}{04}$	16 17	21 21	19 09	22 23	20	13 01	29	18	
Ö	6	22 40	ŧ		56	18	20	58	24	19	48	30	18	
ļ —														

- O Full Moon, 6th day, 0 h. 27 m., morning, W.
- New Moon, 20th day, 1 h. 42 m., morning, E.
- First Quarter, 28th day, 5 h. 23 m., morning, W.

KEY	LET	TERS R	EFE				- 1	ION:			PAGE		FOR AL		וטס צדא	SIDE	NEW	EN	GLAND)
Day of Year	Day of Month			ises. m.		h.	ets.		(ys. m.	B Sun.	Moon's	Full Bos Morn h.			Se h.	ts. m.	Key	Sout h.	- 1
183	1	Sa.	5	10	В	8	2 5	P	15	15	48	10	8	$ 8^{\frac{1}{2}}$	Sco	2	01	G	9]	11
184	2	S.	5	11	В	8	25	P	15	14	48	11	9	$9\frac{1}{4}$	Sco	2	32	F	10 (01
185	3	M.	5	11	В	8	25	P	15	13	48	12	$9\frac{3}{4}$	10	Sgr	3	07	D	10 5	53
186	4	Tu.	5	12	В	8	24	P	15	12	48	13	$10^{\frac{1}{2}}$	$10^{\frac{3}{4}}$	Sgr	3	48	С	11 5	50
187	5	W.	5	13	В	8	24	P	15	12	48	14	$11\frac{1}{2}$			4	38	С	moi	rn
188	6	Th.	5	13	В	8	24	P	15	11	49	0		$0^{\frac{1}{4}}$					12 4	19
189	7	Fr.	5	14	В	8	23	P	15	10	49	16	$0\frac{1}{2}$	1	Cap	1 -	50	N	1 4	19
190	8	Sa.	5	15	В	8	23	P	15	09	49	17	$1\frac{1}{4}$	$1\frac{3}{4}$	Aqr	10	32	M	24	19
191	9	S.	5	15	В	8	23	P	15	07	49	18	2	$2\frac{3}{4}$	Agr	11	09	L	3 4	16
192	10	M.	5	16	В	8	22	P	15	06	49	19	3	$3\frac{1}{2}$	Psc	11	42	J	4 4	11
193	11	Tu.	1	- 1			22		15	05	49	20	$3\frac{3}{4}$		Psc	\mathbf{m}_0	rn	-	5 3	33
194	12	W.	L	17			21		15	04	49	21	$4\frac{3}{4}$	$5\frac{1}{2}$	Ari	12	13	Ι	6 2	24
195	13	Th.					21		15	02	50	22	$5\frac{3}{4}$	$6\frac{1}{2}$	Ari	12	44	$_{ m H}$	7 1	[4]
196	14	Fr.		19	В	8	20	P	15	01	50	23	$6\frac{3}{4}$	$7\frac{1}{2}$	Tau	1.	15	F	80)4
197	15	Sa.		_ 1	В	8	19	P	15	00	50	24	8	8^{1}_{2}		1	48	\mathbf{E}	8 5	54
198	16	S.	_	21	В	8	19	P	14	58	50	25	9	$9\frac{1}{4}$	G'm	2	25	D	94	16
199	17	M .	1	22		1	18		14	57	50		10	$10^{\frac{1}{4}}$	G'm	1	06	1		38
200	18	Tu.		22					4		50		$10^{\frac{3}{4}}$	11	Cnc	ž.	52			31
201	- ``	W.		23			17				50		$11\frac{3}{4}$		Cnc	4	43	В	122	23
202	20	Th.				1	16	1 1		52	50			$0^{\frac{1}{4}}$	Cnc	se	ts	-	1 1	13
203		Fr.					15	1 1	14	50	50	_	$0^{\frac{1}{2}}$	1	Leo			N)2
204	انتانا	Sa.		26		1	14	1 1	14				$1\frac{1}{4}$		Leo	9	52	M	24	
205		S.		$\frac{27}{20}$			13	! [50		$1\frac{3}{4}$		Vir		20	L		32
206				-		1	12	- 1	1		50		$2\frac{1}{2}$	3	Vir	10	46	K		14
207	_	Tu.			С		11	4 1			0		$3\frac{1}{4}$	$3\frac{3}{4}$	Vir	11	11,	I		56
208				-	С		10	1 1		41	50	6	4		Lib	11	36	Н	1	37
209		Th.		31	С	1	09	1 - 1			50		$4\frac{3}{4}$	$5\frac{1}{4}$	Lib	mo				19
210	28	Fr.	t .			l -	08	0		37	50		$5\frac{1}{2}$		Sco	12	.0	G	1 -)3
211	29	Sa.				8		0			50	9	$6\frac{1}{2}$		Sco	12	_	F	7 5	50
2 I 2	30	S-	l .	34		4	06			32		10	- 4		Sco		02			10
213	31	М.	5	35	D	8	05	N	14	30	50	11	814	$8\frac{3}{4}$	Sgr	1	39	D	93	34

JULY hath 31 days.

[1944



"Summer," we say . . . and "summer" . . . loving the word, The sound, the sense, the meaning beyond both, Wherein bird-song is beard, leaf-kiss is heard . . . "Summer" . . . again . . . and "summer" . . . being loth The end the syllables that bring the slow, Sweet indolent days about us where we go.

-	D.M.	D.W.	Aspects, Holidays, Heights of High Water, Weather, etc.	
Ī	1	Sa.	Saloons closed Sup. [8.3 Fog]	-
1	2	A	4th S. at. Tr. 6 & Q. along	,
I		M.	1st U.S. bombers raid Europe (Am. crews), 1942. Aph. (8.7)	
١	4	Tu.	DAY Tides (10.6 coast.)	
١	5	W.	Sir Wm. Pepperell 66 24 C runs \ 11.0 \ d. 1759.	
1	6	Th.	Tides { Hot spell	
İ	7	Fr.	40° below Little America. Lat. N. Tides (11.8 is The Three 7 in Tides (11.6 due	Í
1	8	Sa.	Weeks. Pen. 110.1	
	9	Α	5th S.a. Tr. Tides {11.4 Thunder	
ĺ	10	M.	(110 ex	
I	11	Tu.	Dr. F. Schlesinger Tides \\\ \frac{10.7}{10.2} making.	ŀ
ı	12	W.	Thoreau on Tides \\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	l
I	13	Th.	Holiday, Mrs. Perry, of Keene, 19.7	
	14	Fr.	St. Swithin Bastile Day. Tides \{ 8.3 \\ 10.1	
Į	15	Sa.	Tides \ \ \frac{9.0}{10.7} \ Good \ haying	-
	16	Α	6th S.a. Tr. 6 & C. Tides \ 10.8 and	ı
	17	M.	Holiday Puerto Rico. Tides \{ 8.9 \\ 10.4 \\ seasonable	ı
	18	Tu.	Monamet Ab C. Peri Chigh 110.5	
	19	W.	Dog days begin—Hi. Siriusi Tides \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	
ĺ	20	Th.	St. Margaret. O Ani 690. Tides (9.1	ı
ı	21	Fr.	Tides (10.4 A rain	l
ı	22	Sa.	Dimail magnatone. 9 The 11000 8 3.1	
l	23	Α	7th S. af. Tr. 63 C. Tides (10.0 is	l
l	24	M.	Mussolini Res. 1943 (Apo. Tides \$\) 10 due.	١
ı	25	Tu.	St. James. Haegg mile & W C. (8.9)	١
	26	W.	St. Anne. Con Tides (8.8 Cooler	1
١	27	Th.	Rostov Holiday Tides (8.6 and Puerto Rico.	-
	28	Fr.	Goodbye, Robespierre, Tides (8.8 look	1
	29	Sa.	6 2 4. E. Bowle Tides \ 8.2 9.0 for	-
п	000	1 .	10 Y CH . S 77	ш

8th S. af. Tr.

Tides ${8.1 \atop 9.2}$

Lights out, Sandy Hook \(\mathbf{i} \) in \(\text{10} \) \(\{8.8} \)

Farmer's Calendar.

Don't let your grass get too ripe. Past bloom it becomes woody and loses much of its nourishment and savor. first of the month is not too late to sow millet. Your corn needs cultivating and the sooner haying is done with the better.

Pastures will begin to show results of heavy browsing. Change pastures frequently now. Stock left too long on thin feed will look to green fields beyond and break out of the best fence. Be sure there is plenty of good fresh water for your stock at all times.

You may start now thin-ning out your apples and pears where the fruit is overfruit trees crowded. Mulch with hay or sawdust.

Poultry should have plenty of outside pen space, and occasionally let them run as they will through the or-chard. These hot days are the worst of the year for lice and red mite, so clean your hen house often and paint the roosts with nicotine.

When the water is pouring off you in the hayfield, get the women-folk to bring out a gallon of oatmeal water—two handfuls of oatmeal with Adams Ale from the spring. And there's nothing better to quench thirst and stay by you than a half gallon of buttermilk (just on the turn to sour) and a half gallon of water. Rum and hay don't rain. mix.

1944] AUGUST, EIGHTH MONTH. ASTRONOMICAL CALCULATIONS. Days. Days. Days. Days. Days. O's Declination. 17n.56 16 20 12 40 10 39 20 16 03 10 18 12 00 9 57 15 46 28 11 40 9 36 9 15 15 11 11 20 53 11 00 8 53

O Full Moon, 4th day, 8 h. 39 m., morning, W.

C Last Quarter, 10th day, 10 h. 52 m., evening, E.

New Moon, 18th day, 4 h. 25 m., evening, W.

First Quarter, 26th day, 7 h. 39 m., evening, W.

	KEY LETTERS REFER TO CORRECTIONS TABLE, PAGE 7, FOR ALL POINTS OUTSIDE NEW ENGLAND.																				
	Day of Year	Day of	Day of the Week	-5	Cises m	·[h.	ets.	Key				Moon's		ston. Ston. Ever h.	D'S	8	D ets. m.	Key	_	oths. m.
1	214	1		5	36				N	14						Sgr	2	24	C	10	31
2	215	2		5	37	D							13		$10\frac{1}{4}$	Cap	3	18	C	11	31
2	16	3	Th.	5		1							14		114	Cap	4	20	C	mo	orn
	17				39			00			21			$11\frac{3}{4}$		Aqr			-		32
2	818	1 -	Sa.		40					14			16		$0^{\frac{1}{2}}$	Aqr	9	3	L		32
2	19	1	ساست	4	41		t I	58		11	17		1	1	$1\frac{1}{2}$	Psc	9		K	J.	29
2	20		1		42	1		56	N				18		$ 2\frac{1}{4}$	Psc	10	14	I	1	25
2	21	ł :			43		1.4		N				19			Ari	10	46	H		18
	22	1	W.	1	44		11	54				_	20	$3\frac{1}{2}$	4	Ari	11	1	G		10
	23			1	45			53	_	14		,	1	$\frac{4\frac{1}{2}}{2}$	5	Tau			E		01
	24		Fr.		46	: :		51		14				$5\frac{1}{2}$	6	Tau	mo	rn	-		52
					47			50		14			-	$6\frac{1}{2}$	7	G'm			$\mathbf{D} \ $		43
					48		1	48	_	14		_		$7\frac{1}{2}$	8	G'm		1	C	_	34
	-	14		1	49			47		13				$8\frac{3}{4}$	9	G'm		50			$27_{ }$
					50	f I				13			_	$9\frac{3}{4}$	10	Cnc		39	\mathbb{B}		19
				,	52					13				$10\frac{3}{4}$	$10\frac{3}{4}$	Cnc		1	$\mathbb{B} \ $		09
			Th.		53					13				$11\frac{1}{4}$	$11\frac{1}{2}$	Leo	ŧ	2 9	C		58
	-		Fr.		54		1	41	M			48	_	-	$\begin{bmatrix} 0 \\ 0 \end{bmatrix}$	Leo	se		-		44
1	-		Sa.		00	E		39	M		45	48	0	$0\frac{1}{4}$	$0^{\frac{1}{2}}$	Leo		-01	L		29
2	33	20	S.			E	1	38	1		42	انادا	1	$0\frac{3}{4}$	$1\frac{1}{4}$	Vir		49	- 11		12
2	34	21	M.		57	F		36			40	_	2	$1\frac{1}{2}$	$1\frac{3}{4}$	Vir	9		J		54
			Tu.	ł	58	F	1	35		1	37		3	2	$\frac{2\frac{1}{2}}{2}$	Lib		39	I		35
1	- 1		W.	ļ.	59			33			-	47	4	$2\frac{3}{4}$	$3\frac{1}{4}$	Lib			H		16
	~ , ,	1	Th.	E	$\frac{00}{01}$	1		32 30			- 1	- 1	5	$3\frac{1}{2}$ $4\frac{1}{4}$		Lib			G∥		5 9
					$\frac{01}{02}$	F		30 28		1	29	- 1	6	44		Sco		$\frac{00}{2}$	- 11		44
	39 40	1 1	Sa. S.		00	F		~		13	1	46	7	5		Sco		-	D		31
		$\frac{27}{28}$			04	- 1		~ ~	L	Į.	$\frac{23}{21}$	$\frac{45}{45}$	8	$\frac{5\frac{3}{4}}{6\frac{3}{3}}$		Sgr	mo		-		22
					04			23 23	L		- 1		9	$\frac{6\frac{3}{4}}{73}$	$7\frac{1}{4}$	Sgr		$\frac{15}{2}$	2.1		16
					06						18 15		10	$\begin{array}{c} 7\frac{3}{4} \\ 03 \end{array}$	8	Cap		$\frac{03}{00}$	- 11		13
	43 4 4		Th.										11	$8\frac{3}{4}$	9	Cap		$\frac{00}{0}$	100		13
2	44	01	T. 11.	U	00	u	-	20,	17	10	10	11	14	93/4	10	Cap	3	05	3 ().	11	12

AUGUST hath 31 days.



From weed . . . to flower . . . to weed.
The butterfly Cruises the drowsy air, . . And I. From some old need Of casual indolence, am there. Adrift from all intent, Cruising from weed to flower, Careless of what is meant ... If anything ... by this slow, summer hour.

Aspects, Holidays, Heights of High Water, Weather, etc. × Holiday

Farmer's Calendar.

「1944

Lammas Day. Holiday 8 8 8 10.2 Sticky
Myrna Loy Cruns 190 aneather Tu. C runs 10.8 W. weather. born. Tides { 9.5 Th. St. Stephen. "Liberty Tree". Coast Guard Tides 10.0 cut down 1775 Day. Henderson Field capt. In. 11.6 10.4 Peri. 4|Fr. 5 Sa. 9th S. af. Cr. Transfigu- Tides (11.8 6 A ration. Name of Jesus Tides {11.7 *Showers Μ. Q on {1 Q Gr. Hel. Q Gr. Hel. {11.4 10.9 Battle Britain Tu. now. beg. 1940 Isaac Walton b. 1593. Tides $\begin{cases} 10.9 \\ 10.7 \end{cases}$ W. St. Lawrence. & Gr. El. & Aph. {10.8 10.4 Tides { 9.8 Hotter. Gandhi arrested 1942 (9th). 11 Fr. • Tides $\begin{cases} 9.0 \\ 9.9 \end{cases}$ 12|Sa. Fine **კ∂დ**. Α "Liberty Tree" consecr. 1765. Sha. |M|Assumption of runs high. Tides (8.5) Tu.

10th S.a. Tr. 694. (8.7 days. Tides | 8.5

Holiday Tid Vermont. Sicily conquered 1943 16 W. Tides $\begin{cases} 8.8 \\ 10.0 \end{cases}$ Stormy Tides $\begin{cases} 8.8 \\ 10.0 \end{cases}$ Th 18|Fr. now. Tides (9.0

So long, Sirius! The 640. 680. 19|Sa. 11th S.a. Tr. 64 C. [19th (10.0 20Count Rumford] $\delta \delta C$. [20th {10.0 d. 1814. C_{10}^{on} {9.5 [21st $\delta \Psi C C_{10}^{on}$ {9.8 9.8 9.8 [21st $\delta \Psi C C_{10}^{on}$ {9.8 9.8 9.8 9.8 [21st $\delta \Psi C C_{10}^{on}$ {9.8 9.8 9.8 [21st $\delta \Psi C C_{10}^{on}$ {9.8 9.8 [21st $\delta \Psi C C_{10}^{on}$ {9.8 [21st $\delta \Psi C_{10}^$ 21 M.

Tu. Tides $\begin{cases} 9.4 \\ 9.2 \end{cases}$ ♥ Stat.in Z. Morse b. 1761. Th. St. Bartholomew. Tides (9.0 Nice cool Troy, N.Y., fire 1854. Fr. weather is

Tides [8.4 expected. 9 2 2 12th S. a. Tr. Tides (8.1 Could should be about ready for

Tides (8.1) be real St. Augustine. Μ. John the Baptist Cruns low \(\begin{array}{c} \text{8.2} \\ 9.7 \\ \end{array} \] beheaded. Tides (8.6 10.2 Holiday ni^e.

Louisiana ♥ Gr. Hel. 6 24 O. {10.8 ers, and nails? Str. Metis. sank 1872 Lat. S.

26|Sa.

Nearly one half our tools in use on farms today are and purchased second hand are from one to fifty vears Average age of old. potato dusters and milling machines, eight years; spring tooth harrows, nine years; cream separators, ten years; walking plows, twelve years: wagons, fifteen years; and rollers, eighteen years. Never throw away old parts. Many a manure spreader is the result of putting three old ones together -- somehow.

Everytime a 16 inch gun is fired 100 pounds of nitrogen goes back into the air. That's about all the nitrogen there is in 600 pounds of nitrate of soda, or in two or three acres of leguminous plants. Turning under clover isn't as silly as many city folks might many think.

Well on in August is the time to start cutting brush in wood's roads and orchards. If you want to keep your blueberry pasture bearing. cut that grey birch and pine between the bushes.

Keep after weeds and don't let them go to seed. Sell off your old hens before they begin to moult. Give shrubs and small trees around the farm plenty of water. Mulch your hoed crops if August is a month of drought—and it may be. Early potatoes digging and market. Get rid of the old strawberry bed now, and plant a late crop in place of them. Have you plen-ty of apple boxes, slats, cov-

SEPTEMBER, NINTH MONTH. 1944] ASTRONOMICAL CALCULATIONS. Days. Days. Days. Days. Days. O's Declination. 4 40 8n.10 5 2 54 2 31 0N. 10 2 08 **0s.** 12

Full Moon, 2nd day, 4 h. 21 m., evening, W.

- Last Quarter, 9th day, 8 h. 03 m., morning, W.
- New Moon, 17th day, 8 h. 37 m., morning, E.
- First Quarter, 25th day, 8 h. 07 m., morning, E.

KEY LETTERS REFER TO CORRECTIONS TABLE, PAGE 7, FOR ALL POINTS OUTSIDE NEW ENGLAN													D.							
Day of Year	.04	ay of the Veek		ses.	2	(ets.	Key	Len Da h.	gth	123	00	Full Bos Morn h.	Sea.	7020	Se	ts.	Key	Sou h.	D
245	1	Fr.	160	09	G	7	18	K	13	10	44		$10^{\frac{1}{2}}$	11	Aqr	4	18	D	mo	orn
246	2	Sa.	6	10	G	7	17	K	13	07	44	0	$11\frac{1}{2}$	$11\frac{3}{4}$	Aqr	ris	es	-	12	12
247	3	S.	6	11	G	7	15	K	13	04	43	15		$0^{\frac{1}{4}}$	Psc	8	10	J	1	09
248	4	M.	6	12	G		13		13	02	43	16	$0^{\frac{1}{2}}$	1	Psc	8	43	Ι	2	05
249	.5	Tu.	6	13	G		12	K	12	59	43	17	$1\frac{1}{2}$	2	Ari	9	16	1	2	59
250	6	W.	6	14	G	7	10	K				18		$2\frac{3}{4}$	Ari	9	49	\mathbf{F}	3	52
251		Th.	6	15	G	7	08	K			42			$3\frac{3}{4}$		1	24			45
252		Fr.	6	16	G	7	06	K	12					41	Tau		04	С	5	38
253		Sa.	6	17	H	7	05	J	12	48	41	21	5	$5\frac{1}{2}$	G'm		47		6	31
254	10	S.	6	18	н	7	03	J	12	45	41	22	$6\frac{1}{4}$	$6\frac{1}{2}$	G'm	mo	rn	_	7	23
255	11	M.	6	19	Н	7	01	J	12	42	41	23	71	71/2			35	В	8	16
256	12	Tu.	6	20	н	6	59	J	12	39	40	24	$8\frac{1}{4}$	$8\frac{3}{4}$		1	00	В	9	06
257			6 :	21	н	6	58	J	12	36	40	25	$9\frac{1}{4}$	$9\frac{1}{2}$	Leo	2	24	С	9	55
258							56		12		40	1		$10\frac{1}{4}$	Leo	3	22	D		42
259	15	Fr.	6	23	н	6	54	J	12	31	39		11	11	Leo	4	~ ~	E	11	27
260			6	24	н	6	52	J	12	28			$11\frac{1}{2}$	$11\frac{3}{4}$	Vir	5		\mathbf{F}	12	11
261			6	25	н	6	51	\mathbf{J}^{i}	12	25		0		0	Vir	se				53
262	18	M.	6	27	Н	6	49	J	12	22	38	1	01/4	$0^{\frac{3}{4}}$	Lib	7	43	I		34
263	19	Tu.	6	28	Ι	6	47	Ι	12	19	38	2	1		Lib	_	00	н	2	15
264	20	W.	6	29	I	6	45	Ι	12	17	37	3	1 1 5	2	Lib	8	34	G	2	57
265	21	Th.	6	30	Ι	6	43	Ι	12	14	37	4	$2^{rac{1}{4}}$	$2\frac{1}{2}$	Sco	9	02	\mathbf{F}	3	41
266	22	Fr.	6	31	Ι	6	42	Ι	12	11	37	5	3		Sco	9	34	Е	4	27
267	23	Sa.	6	32	Ι	6	40	Ι	12	08	36	6	$3\frac{3}{4}$		Sgr	10	11	D	5	15
268	24	S.	6	33	Ι	6	38	Ι	12	05	36	7	$4rac{1}{2}$	$4\frac{3}{4}$	Sgr	10	55	С	1	07
269	25	M.	6	34	Ι	6	36	Ι.	12	02	36	8	$5\frac{1}{4}$	$5\frac{1}{2}$	Sgr		46	l i		01
270	26	Tu.	6	35	I	6	35	Ι	12	00	35	9	$6\frac{1}{4}$	$6\frac{1}{2}$		mo	rn	_		58
27 I	27	W.	6	36	I	6	33	Ι	11	57	35	10	71		Cap	12	46	С		56
272	28	Th.	63	37	Ι	6	31	Ι	11	54	35	11	81/4		Aqr	1	~0	D		54
273	29	Fr.	63	38	I		2 9		11	51	34	12	$9\frac{1}{4}$		Aqr.		06	E	10	51
274	30	Sa.	6	40	Ī	6	28	Í	11	48	34	13			Psc		22		11	47
			-														Chin		-	



The summer lolters, lingering going out, Ambiguous and dim upon this hill, Misted and blurred and troubled with a doubt, And barely summer, still.

Clear

I	2	Sa.	Bar. 26.35 Long Key, Fla., 1935. Tides \(\frac{10.5}{11.7} \) but
	3	Δ	13th S.a. T. AT W. Tides {1
	4	M.	Labor Day. (on [11.9] cooler.
	5	Tu.	Card. Richelieu $\square \odot \bigcirc$. Tides $\begin{Bmatrix} 11.7 \\ 11.5 \end{Bmatrix}$
ı	6	W.	Labor Day. Con (11.9 cooler. Card. Richelieu (1.1585. Doston Light Snuffed, 1942. ♦ ♥ . ♦ ♥ O Inf. (11.4 cooler. Card. Richelieu (1.1585. Doston Light Snuffed, 1942. ♦ ♥ . ♦ ♥ O Inf. (11.4 cooler. Cooler. Cooler. Cooler. Cooler. Cooler. Cooler. Cooler. Cooler. Card. Richelieu (1.1585. Cooler.
l	7	Tn.	n Peri {ii.o Rain here and
I	8	Fr.	Nat. of VII. Mary. Italy 10.1 there.
l	9	Sa.	Holiday California. 66 C. 644. 698.
ı	10	A	14th S.a. Tr. Tides (8.8 [9th (9.4 10.0
I	11	M.	Election Day. & h C. Chigh 18.4
۱	12	Tu.	Holiday Maryland. Tides $\{ \substack{8.3 \\ 9.8} \}$ Crisp tides $\{ \substack{8.4 \\ 9.4} \}$ evenings and
ı	13	W.	Tides \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \
ı	14	Th.	Holy Cross Day Tides (8.5 chilly)
ı	15	Fr.	Trees are blushing. Stat. 68.0 days.
ı		Sa.	624 C. Tides \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \
ı	17	Α	15th S.a. Tr. Constitution Day.
1	18	M.	Rosh Hashanah & W. C. & Stat. in Look
	19	Tu.	\$\psi \ Ω. [18th \$\delta d \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \
1	20	W.	Tides (9.5 119th & Q (19.6 for a
	1	Th.	St. Mathew. F. T. Ward k. \ 9.8 low at Tse-Ki, 1862. \ 9.5 low
	22	Fr.	N.E. hurricane & Gr. el. Tides \(\frac{9.0}{9.4}\)
	100	1~	1 A TEMPERATURE A 1 V 3 V V 10 10.1

St. Louis Cardinals (9,2 defeated White Sox C runs (8.2 about now. 1930. Yom Bat. of Britain & \psi \cdot \{ \text{9.6} \\ \text{Kippur over, 1940.} \\ \text{Adm. Sims} \text{Tides \{ \text{10.6} \\ \text{10.6} \\ \text{10.6} \\ \text{Michaelmas, Tides \{ \text{10.6} \\ \text{10.6} \\ \text{10.6} \\ \text{11.1} \\ \text{10.6} \\ \text{11.1} \\ \text{10.6} \\ \text{11.1} \\ \text{10.6} \\ \text{10.6} \\ \text{11.1} \\ \text{10.6} \\ \text{10.6} \\ \text{11.1} \\ \text{10.6} \\ \text{11.1} \\ \text{10.6} \\ \text{10.6} \\ \text{11.1} \\ \text{10.6} \\ \text{11.1} \\ \text{10.6} \\ \text{10.6} \\ \text{10.6} \\ \text{10.6} \\ \text{10.6} \\ \text{11.1} \\ \text{10.6} \\ \text

Telephone receivers are made of OXYBENZELMETHYLENEGLYCOLANHYDRIDE!

blustery.

Tides $\begin{cases} 10.2 \\ 11.1 \end{cases}$

St. Louis Cardinals (8.2

1 Fr. St. Giles

23|Sa. 24 A

 $25 | M_{\odot}$

26 Tu.

29 Fr. Michaelmas.

30 Sa. St. Jerome.

Aspects, Holidays, Heights of High Water, Weather, etc.

Tides $\begin{cases} 9.8 \\ 11.8 \end{cases}$

Farmer's Calendar.

Near villages the number of field mice is determined, among other things, by the number of cats—the more cats the fewer the field mice — the more old maids, the more cats. O well, you carry this one to its logical conclusions.

Watch the windfalls under your apple trees. Fruit that falls early is more often than not diseased and the sooner it is gotten out of your or-chard the better. Nothing so good for pigs. Your fruit trees should be well propped by this time where branches are heaviest laden.

Your grass should be sowed not later than the middle of this month if you are to have a good catch before winter and a good crop of hay

next June.

Don't miss the agricultural fair if you can get to it. Encourage the boy or the girl to enter some of their prize products. Come back with products. Come some brand new ideas.

Mow the weeds around your barn before the seeds ripen. This is the best time to set young pine trees.
"A hundred good points of

AUTUMN Oen. ... 68 7 10 set young pine trees.

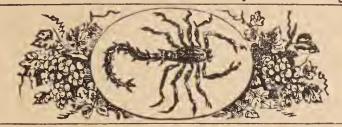
Begins. Oen. World Fair 19-21st [8.4] husbradry
Tunbridge, Vt. (9.2) Maintaineth good household,

with huswifry. husband-

Housekeeping and he ry, if it be good, Must love one anoth cousins in blood. another like

The wife, too, must husband as well as the man, Or farwel thy husbandry, do what thou can." Thomas Tusser

	1944] OCTOBER, TENTH MONTH.																
19)44]							<u> </u>									
-	IIDo	ув.	0 /	-	TRO	$\frac{\mathbf{N}\mathbf{U}}{0}$	MI		ys.	AL	CUI	Days	ONS.	1	Days.	0	,
Declination.	1		3s. 19	-	7	_ 5	38	-	3	$\frac{0}{7}$	54	19	-	06	25		13
nat			3 42		8	6	01		4	8	16	20		28	26		$\frac{13}{34}$
ec];			06		9	6	24	1	2	8	39	21	1	49	27	4	54
II A		5 4	29 52		10 11	6	$\begin{array}{c} 46 \\ 09 \end{array}$	$\begin{vmatrix} 1\\1 \end{vmatrix}$		9	$\begin{vmatrix} 01 \\ 23 \end{vmatrix}$	22 23	11	$\frac{11}{32}$	28 29		$\begin{vmatrix} 14 \\ 34 \end{vmatrix}$
e O		8 8			12	7	32	1	1	9	45	24	1	$\frac{52}{52}$	30	13	
	0	Fu	ll Mo	001	n. 21	nd		v. (0 h	. 2	22 m) m	orni	ng	. W.		
	ď														g, E.		
	•	Ne	w M	00	n, 1	7t]	h d	av,	1	h.	35	m.,	mori	nin	g, E.	~	
	New Moon, 17th day, 1 h. 35 m., morning, E. First Quarter, 24th day, 6 h. 48 m., evening, W.																
	O Full Moon, 31st day, 9 h. 35 m., morning, W.																
9-4	KEY LETTE'S REFER TO CORRECTIONS TABLE, PAGE 7, FOR ALL POINTS OUTSIDE NEW ENGLAND.															D.	
ay c	OLE ONE OF SEES. W Sees. W Length See Boston. D'S D Sees. W Souths.															tha.	
	ZQI	-	h. m.	. 1	h. m		Hirr.	m.	m.	12	h.	l h.	Place	h.	m.	h.	m.
275		والسيانا ا	1	J				45			11	$ 11\frac{1}{2}$	1 .	1 .	40 _H	11	
		1		()	$\frac{624}{622}$			43		_	01	0	Ari		ses -	11	42
277		11	6 44	J	621	_	11		1	$\begin{array}{c} 16 \\ 17 \end{array}$	$0\frac{1}{4}$		Ari Tau		- 1		$\frac{36}{31}$
279	1 .	. 3					11		32			$egin{array}{c} 1rac{1}{2} \ 2rac{1}{2} \end{array}$	Tai	1			26
280	1 -		646		1	H	* 1		32	_		$3\frac{1}{4}$	G'm	1		11	21
281			6 47			H	117		_	$\frac{1}{20}$		$\frac{3_4}{4_4^1}$	G'm				15
282		1	6 48		6 14		111	26	32	{	43	5	Cnc	1		11	09
283	9		6 50		6 12		11	$\frac{1}{23}$	31	$\frac{1}{22}$	$\begin{array}{ c c c } 4\frac{3}{4} \\ 5\frac{3}{4} \\ 6\frac{3}{4} \\ \end{array}$	6	Cnc			11	02
284	10	Tu.	651			H	11	20	31	$\overline{23}$	$6^{\frac{4}{3}}$	$7\frac{1}{4}$	Cnc			13	52
285	; 11	W.	652	K	609		11	17	31	24	$7\frac{3}{4}$	81/4	Leo	1	- 1	H '	40
286	1	1	653		6 07		11	14	30	}	83/4	9	Leo	2		l I	26
287			654		606		11	12	30	26	91	$9\frac{3}{4}$	Vir	3	12 _F	10	09°_{1}
)	14		655		604			09			$10\frac{1}{4}$	$10\frac{1}{2}$	Vir	4	11 G	10.	51
289	1	المتالية ال	6 56		602			06				$ 11\frac{1}{4} $	Vir	5	09 н	11:	33
1	16		6 58		601						$11\frac{1}{2}$		Lib	6	081	12	15
291	1	Tu.	659	- 1	5 59		11	01	29	-		$0\frac{1}{4} \\ 0\frac{3}{4}$	Lib	1 -	ets -	12	56
292	1	W. Th.	$\frac{700}{701}$		5 58		ш.	58		1	$0\frac{1}{2}$	$0\frac{3}{4}$	Sco	7		1 4	40
293 294	1	Fr.	7 02		5 56		$\frac{10}{10}$	00	29	2	$1\frac{1}{4}$ $1\frac{3}{4}$	$1\frac{1}{4}$	Sco	7	36E		25
			7 02 7 04	T.	5 52	F.	10	52	29	3	1 4	2	Sco	8			13
206	$ _{22}$	S	705	ר. די	5552	L T	10	47	20	4 5		24	Sgr	0	52 C	4 (
207	$\frac{1}{23}$		706		552	E T	10	41	28	$\frac{3}{6}$		102	Con	10	40 c 35 c	4	
			7 07	L	549	F	10	42	28	7	5	51	Can	11	38 c	$\begin{vmatrix} 5 & 6 \\ 6 & 4 \end{vmatrix}$	
299	25	W.	7 08	Ł	5 47	TR.	10	39	28	8	6	61	Aor	m	orn-	7 4	
300	26	Th.	710	L	546	F	10	36	28	9	7	71	Agr	12	47 _D	83	
301	27	Fr.	711	L	544	F	10	34	28	10	8	81	Psc	1	59 F	9:	
302	28	Sa.	712	L	543	F	10	31	28	11	9	91	Psc	3	14 G	10 2	
303	29	S.	7 13	L	542	F	10	28	28	12	$9\frac{3}{4}$	101	Ari	4	291		19
304	30	M.	710 711 712 713 715	M	540	E	10	26	28	13	$10^{\frac{3}{4}}$	114	Ari	5	45.T	mo	- 1
305	31	Tu.	7 16	M	539	E	10	23	28	0	111/2	-	Tau	ris	es -	12	



For a grave moment, there, The last leaf, pendant . . high . . Wore the wide, infinite air, Bore the enormous sky, And fell . . . with surely enough For sleep's long dreaming of.

D.M.	D.W.	Aspects, Holidays, Heights of High Water, Weather, etc.
$\overline{1}$	Α	17th S. af. Tr. Rem. Tides (10.9)
2	M.	Succoth. Con Tides 11.4 Fine
3	Tu.	Decimal arithhO. \(\begin{array}{c} \text{Gr.Hel.} & \text{11.5} \\ \text{1nv. } \text{1602.} & \text{Lat. N.} & \text{11.7} \end{array}\)
4	W.	Robinson Crusoe got off Q in 8 11.4 at Juan Fernandez, 1704. Q in 8 11.7
5	Th.	Great Snow Tides \ \\ \begin{array}{lll} \text{11.5} & and fresh. \end{array}
6	Fr.	69 C. Tides {10.4 11.0
7	Sa.	Спісадо Fire 6 \$ \$\Psi\$. Tides \{\frac{9.7}{10.4}} Rain
8	A	18th S.a. Tr. 6 ha. Cruns (3.1)
9	M.	St. Denys. Tides (8.8 and cold.
10	Tu.	Chester, Vt., decl. its. independence 1774.
11	W.	Tides $\begin{cases} 8.2 \\ 8.9 \end{cases}$ Definitely don
12	Th.	Columbus Day. Holiday most states. Tides (8.4)
13		ad 1834. 6 4 (. \ \ flannels.
14	Sa.	Josh Billings d. 1885. \mathbb{C}_{Apo} . Tides $\{ \begin{array}{l} 9.0 \\ 9.2 \\ 9.2 \end{array} \}$
15	Α	19th S.a. Tr. δ Ψ C. Tides (9.8)
16		Burgoyne surr. at Saratoga 1777. Saratoga 1777.
17	Tu.	6 & C. Tides (9.7 An easterly
18	1	St. Like. Holiday, Tides (9.4 storm
19		(Little Va. floods of Q (\ \ \frac{9.3}{9.9} is
20		Trees are now of to Sup. {9.1 due.
21	12.00	Sh mini Tides (8.9 Windy Aztereth Cont Kidd (8.7
22	/	20th S. a. Tr. Capt. Kidd (8.7 and gib. 1899. (8.6 and gib. 1899. (8.7 uns
23		Strange blast b Stat.in Rutland, Vt., 1942 k. A. Cruns low.
24	1	Tides \ \ \frac{8.3}{9.4} \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \
25		St. Glispin. During Tides 9.4
26	II	N. W. pass. Tides \(\begin{array}{ll} 8.7 \\ 9.6 \end{array} \)
27		Navy Day, \$\psi \cong 8. \{\frac{9.2}{9.9}} \[28^{\text{th}} \\ \{\frac{9.8}{10.8}} \] st simon & lude Italy inv. 18 2
28	1	Dt. Dimon & June Greece 1940. O + O
29		21st S.a. Lt. King. LEq. CPeri.
	M.	All Hallow & Lvc. 310.9 29 110.6
31	Tu.	Holiday Nevada. {11.6 Rawer, windy too.

Farmer's Calendar.

This is apple picking month, though if the season has been early you may have larvested your Macs and earlier apples in September. Well-picked is often well-sold. Handle your apples like eggs, but twice as carefully. Eggs don't bruise.

eggs, but twice as carefully. Eggs don't bruise.

Pickers should know that apples are not pulled (this usually draws the stem out) but grasped by the whole hand and turned back and up towards the bough till gently released. They should know, too, that fruit cannot be dropped into the picking basket, nor the basket filled too full; and that apples are taken from basket to box two or three at a time and never poured out. Great care should be used in the placing of picking ladders, and in the pickers' movements in the trees. Next year's fruit spurs can be broken off at a touch. See that no tree is left until it is picked clean, even of small tight-clinging culls. Drop apples should be gotten out of the orchard as soon as possible, but never dump these near by. The rotting pile is a sure disease breeder. Best drops bring a fair price, but run no drops in with handpicks. Drops are bruised somewhere, and this is sure to show up late.

It's a good practice in sorting and boxing the fruit to wear clean cotton gloves. Fingernails may scar fruit, and gloves are less likely to brush off the bloom.

19441

NOVEMBER, ELEVENTH MONTH.

ASTRONOMICAL CALCULATIONS.

i	Days.	0	1	Days.	0	1	Days.	0	1	Days.	0	1	Days.	0	1
©'s Declination	3 4	14s. 14 15 15 15	33 52 10 29 47 05	7 8 9 10 11	16 16 16 17 17	23 40 58 15 31 48	13 14 15 16 17 18	18 18 18 18 19	04 19 35 50 04 19	19 20 21 22 23 24	19 19 20 20 20 20	33 46 00 13 25 37	25 26 27 28 29 30	20 21 21 21 21 21	49 01 12 22 33 42

- C Last Quarter, 7th day, 2 h. 28 m., evening, W.
- New Moon, 15th day, 6 h. 29 m., evening, W.
- First Quarter, 23rd day, 3 h. 53 m., morning, W.
- O Full Moon, 29th day, 8 h. 52 m., evening, E.

KEY LETTERS REFER TO CORRECTIONS TABLE, PAGE 7, FOR ALL POINTS OUTSIDE NEW ENGLAND. Length of Days. Days. h. m. m. m. Full Sea, Boston. D Rises. h. m. Morn Even Souths $|7|17|\mathbf{M}|5|38|\mathbf{E}|10|21|28|15$ $0\frac{1}{4}|Tau|$ 306 $648|_{D}$ 1080 $0^{\frac{3}{4}}$ $1\frac{1}{4}$ G'm $18 \, \mathrm{M} \, 5 \, 36 \, \mathrm{E}$ 10 18 28 16 204307 Th.7 30lc 3 Fr. 719 M 535 E $1\frac{3}{4}$ 10 16 28 17 3 01 308 G'm 8 17 4|Sa. |7 21| M|5|34|E10 13 28 18 $2\frac{1}{2}$ $2^{\frac{3}{4}}G'm$ $9.09|_{\rm B}$ 3 57 309 72255 M|5|33|E|10|11|28|19 $3\frac{5}{2}$ 310 33 Cnc 10 05 B 4.526 M. $7 \, 23$ 41/4 4½ Cnc 11 03 C 311 M532E10 08 28 20 5 45 7 Tu. 7 24 M 531E $5\frac{1}{2}$ Leo $5\frac{1}{4}$ 312 10 06 28 21 635 morn $726 \,\mathrm{M}\,529 \,\mathrm{E}$ 8 W. 10 04 28 22 $6\frac{1}{4}$ 6½ Leo 313 $12.03 \, \mathrm{D}$ 722314 9|Th. $|7\ 27$ N 5 28 D 10 01 28 23 $7\frac{1}{4}$ 7½ Vir $1.03|_{\rm E}$ 8 06 315 10 Fr. 728 N 8½ Vir $202 \, \mathrm{F}$ 527p9 59 28 24 8 8 49 316 11 Sa. $729 |_{\mathrm{N}}$ 5.26p $9\frac{1}{4}$ Vir 300 H 9 57 28 25 9 931 317 12 5-731 $9\frac{3}{4}10$ 525p9 55 28 26 Lib 3 59 1 $10 \ 12$ 318 13 M. 732 $9.52|28.27|10\frac{1}{4}|10\frac{3}{4}|$ Lib 4 58 J 10.54319 14 Tu. 733 5 23 D 9 50 28 28 11 $11\frac{1}{4}$ Sco $5.58 \,\mathrm{K}$ 11137320 15 W. 7 34 N $948|29 11\frac{1}{2}$ Sco $12 \ 22$ sets 321 16 Th. 7 36 N 9 46 29 $0\frac{1}{4}$ Sco 0 6 11 1 09 D 322 17 Fr. | 7 37 $0\frac{3}{4}$ $521 \, \mathrm{D}$ 9 44 29 1 $0\frac{3}{4}$ Sgr 6 50 c 1 59 $1\frac{1}{2}$ $2\frac{1}{4}$ 9 42 29 2 323 18 Sa. 738|n $1\frac{1}{2}$ Sgr 7 36 C 2 52 $739 \, \mathrm{N}$ 324 19 S_ 940.29 21 Cap 8 30 c 3 47 325|20|M. 7410 5 18 c 4 3 9.38|303 Cap 9 30 c 4 43 326 21 Tu. 742 o 5 33 9 36 30 4 Agr 10 36 D 5 48 6 327 22 W. 43 Agr 11 46 E 17 43 o 934|3045 632 328 23 Th. 7 44 o $5\frac{1}{2}$ 5 16 c 932|30 $5\frac{3}{4}$ Agr 725morn 329 24 Fr. 7450 5 16 c $9\,30|31$ $6\frac{1}{2}$ 7 Psc 12.58 G 8 17 330 25 Sa. 7470 |515|c9|29|319 $7\frac{1}{2}$ 8 Psc $2.10|_{\rm H}$ 9 09 331 26 5_ 7480 515c $9\,27|31|10$ $8\frac{1}{2}$ 9 3 24lr Ari 332 27 M. 74905 14 C $9\frac{1}{2}$ 10 $9\,26|32|11$ Ari4.37lk 333 28 Tu. 7 50 o $924|32|12|10\frac{1}{4}|10\frac{3}{4}|$ Tau 514c551lL334 29 W. 751 0 514 c 9 22 32 0 11 ½ 11 ½ Taurises 335 30 Th. 752 o 513 c 9 21 33 14 G'm 6 03 c 0

NOVEMBER hath 30 days.

Γ1944



Now is such sound: As though the mournful dead Rose from the ground, Hearing the rain overhead And the wind's plight, Wandering the homeless air . . As though the night Were thronged with wanderers there.

I	D.M	D. W	Aspects, Holidays, Heights of High Water, Weather, etc.
l	1	W.	All Saints, Holiday Tides (10.9 Frosty

Farmer's Calendar.

Holiday Holiday Canal Zone. 6 & C. Tides (10.7 and St. Hubert's. Canal Zone. $\{^{10.4}_{11.8}$ fine. Tides \ 10.8 Cruns high. Sa. 67 C. 22nd S.af. Tr. Fawkes Tides (10.2 Roses bloom New Zealand. & in. (8.9 Windy 5 $\begin{array}{c}
n \\
d.
\end{array}
\begin{array}{c}
\downarrow \\
A ph.
\end{array}$ Tides $\begin{cases}
8.5 \\
9.1
\end{cases}$ 6 M. Election and signs Day.
S. Bernhardt
G. 1
S. Bernhardt
G. 1
S. Bernhardt
G. 1
S. Bernhardt
G. 1
S. Grick
Gebut N. Y. 1880. Q in 68.8 of
U.S. forces land N. Africa Tides 68.8 of
1942 (7th).

The factorial forces for the factorial forces forces for the factorial forces forces forces forces forces forces for the factorial forces for the factorial forces 9 Holiday (7th).
Canal Zone. δ μ (. C_{Apo.} {8.5 snow.
St. Martin. Armistice ζ Ψ (. Tides {8.7 snow.
Day.
23rd S. af. (. St. Martin. C on §9.0 11 Sa. 12A Indian Summer Tides (8.9 Clearing Μ. begins,
Phila Jack O'Brien
d. 1942 (12th).
Solomons victory
1942.

Solomons Victory
1942. W. Mason-Dixon line begun 1765.
King's Name Day, Belgium, 15th. Tides $\begin{cases} 9.1 \\ 10.1 \end{cases}$ 16 Th. Belgium, 15th.

6 Q C. Tides { 9.0 | 10th } 10.2 mild
24th S. af. C. Puerto Rico. C 18.8 19The Old Farmer's Almanack. Tides (8.8 to.0)
Presentation of Our Lady (8.7 spell.
at the Temple. Μ. Tides $\begin{cases} 8.7 \\ 9.6 \end{cases}$ W. St. Cecilia. Cooler 73 Th. St. Clement. Holiday (9.5 especially Pakar joins U. N. Tides (9.5 nights, 1942 (22nd). Tides $\begin{cases} 9.5\\ 9.6 \end{cases}$ st. Catherine 25 Sa. 25th S. af. T. \$\overline{\mathbb{G}}\text{r. Hel. Con.}\ \mathbb{E}\text{eq.} \ \begin{pmatrix} \mathbb{G}\text{r. Hel.} & \mathbb{C}\text{eq.} \ \mathbb{E}\text{eq.} \end{pmatrix} \\ \mathbb{e}\text{.8} & \text{con.} \end{pmatrix} 26S.S. Portland sank 1898 (9-10 A.M.). 1st U.S. postoffice 1783. Μ. 28∤Tu. Winston Churchill 11.4 30th Q Gr. Hel. b. 1874. Th. Thanksgiving. Andrew. 600. {11.5 30

Today's joys tomorrow are realized too late.

Harvest is home—and you may give a thought now to the old cock partridge at the orchard end and the woodcock in the alder run. The moon is just fine for coon hunting. But don't let things slide until winter sets iu. How about that root cellar? Are your cattle off pasture? Have you put the barns in order, replaced the broken panes and stopped the draughty places? Are all tools cleaned and dry and put under cover where they belong?

This is a good time to get the rocks out as you do your fall plowing, and to spread manure. Harrow it well in if possible before the ground freezes, particularly if you are working a sidehill field. Loose manure will run badly on such a slope, where a level field would hold it.

Pigs killed this month will keep well. Get to your cider making from the best of your "seconds" or "drop" winter apples, but let no rotten apples through the press. You may do some trimming of grape vines and fruit trees, but not so lavishly as to invite winter killing. Be sure all your apple props are out from under the boughs. They will score the bark badly if left till spring. Store your apple boxes and ladders. Be sure that the hen house is well cleaned up and sacking tacked tight over the window openings. Have you got enough wood in? Have you manured the asparagus bed? Give thanks for harvest in

and your fruits of freedom.

1944] DECEMBER, TWELFTH MONTH. ASTRONOMICAL CALCULATIONS. Days. Days. Days. Days. Days. O's Declination. 21s. 52 39 23 11 26 23 21 45 23 14 26 23 17 23 27 51 19 23 27 23 16 22 57 20 3 02 22 26 13 24 25 23 09 07

- € Last Quarter, 7th day, 10 h. 57 m., morning, W.
- O New Moon, 15th day, 10 h. 34 m., morning, E.
- First Quarter, 22nd day, 11 h. 54 m., morning, E.
- Full Moon, 29th day, 10 h. 38 m., morning, W

KEY-LETTERS REFER TO CORRECTIONS TABLE, PAGE 7, FOR ALL POINTS OUTSIDE NEW ENGLAND.																				
Day of Year	Day of Month	Day of the Week	F h.	Claes m	Key	E h.	ets.	Key	11 6	gth f ys. m.	uns a.	Moon's	Full Bos Mori h.	ston. Even h.	D's	Ri h.	bises.	Key		D iths.
336	1	Fr.	17	53	0	15	13	C	9		[33			$10^{\frac{3}{4}}$	G'm	6	54	В	1	41
337		Sa.	7	54	0	5	13	С	9		34		$1\frac{1}{2}$	$1\frac{1}{2}$			49	В	$\parallel 2$	37
338	3	S.		55		5	12	C	9	17	34	17		$2^{\frac{5}{2}}$	Cnc	1	47	В	3	33
339		M.	7	56	0	5	12	В	9	16	34	18			Leo	9	48	C	4	25
340		Tu.	7	57	0	5	12	В	9	15	35	19	$3\frac{3}{4}$	4	Leo			D	5	15
341	6	W.	7	58	P	5	12	В	9	14	35	20	$4\frac{3}{4}$	5	Leo	11		$_{\mathrm{F}}$	6	01
342	7	Th.	7	59	P	5	12	В	9	12	36	21	$5\frac{1}{2}$	$5\frac{3}{4}$	Vir	m_0		-	6	45
343				00		5	12	В	9	12	36	22	$6\frac{1}{2}$	$6\frac{3}{4}$	Vir	12	49	G	7	27
344		Sa.	8	01	P	5	12	В	9	11	36	23	$7\frac{7}{4}$	$7\frac{1}{2}$	Lib.	1	47	$_{\rm H}$	8	08
			8	02	P	5	12	В	9	10	37	24	$8\frac{1}{4}$		Lib	2	46	I	8	49
346			1	03			12		9	09	37	25	9	$9\frac{1}{4}$	Lib	3	46	J	9	31
				04			12		9	08	38	26	$9\frac{3}{4}$	10	Sco	4	47	L	10	15
348	13			04		Ш	12				38		$10\frac{1}{4}$	$10\frac{3}{4}$	Sco	5	49	M	11	02
UTT	14			05		1	12	1 1	9	07	39	28	11	$11\frac{1}{2}$	Sgr	6	53	N	11	52
350				06	3	(13		9	07	39		$11\frac{3}{4}$	-	Sgr	se	ts	-	12	44
00				07			13		1	06		1	$0^{\frac{1}{4}}$	$0\frac{1}{2}$	Sgr	6	22	В	1	40
352				07			13				40	2	1	$1\frac{1}{4}$	Cap	7	22	C	2	37
353	18	М.		08			14			06		3	$1\frac{3}{4}$	2	Cap	8	28	C	3	33
	19	Tu.					14	- 1	1	05		4	$2\frac{1}{2}$		Aqr	9	37	E	4	29
1001				09			14	- 1	_		42	5	$3\frac{1}{2}$	$3\frac{3}{4}$	Aqr	10	49	F	5	22
000				10			15	- 1	1	05		6	$4\frac{1}{4}$			mo				14
357				10	P		15	- 1		05		7	$5\frac{1}{4}$			12		G		05
10001	- 1				P	1	16	В	í	05		8	$-6\frac{1}{4}$	$6\frac{1}{2}$	Ari			I	7	55
			8		P	1	_ [В		05		9	$7\frac{1}{4}$		Ari			J.		46
360							17	1		$\frac{06}{2}$		10	$8\frac{1}{4}$	$8\frac{3}{4}$	Tau		1	L		38
361				12		à .	18	- 11			45		9		Tau		46	M		31
362				12			19				45		10		G'm			N	11	27
				12	[]		19			. [46		11	2	G'm			o	mo	
V 1					- 11		20	- 11		1	46		$11\frac{3}{4}$		Cnc			-		23
0	30					5		B		- 1		15	$0\frac{1}{4}$		Cnc		32			19
366	91	S.	8	13'	P)	0	22	B	9	09	46	16	1	14	Cnc	7	33	C	2	13

DECEMBER hath 31 days.

[1944



Now comes white stillness down, On the piled tree, on the town, On the dim field heyond Our seeing, where the fond Thought wanders, knowing how The fence and field, just now, Are one...
And the mind, no less, will stay Its noise, heing hushed away... So the snow's will is done.

D.M.	D.W.	Aspects High V	Holida Vater, V	vs, Heig Veather,	hts of etc.
	1773	Haliday	-	(10.0	77.

Farmer's Calendar.

	<u> </u>	H	11.82 1.400.
	1	Fr.	Holiday Ides (10.0 Fine
	- 1	Sa.	A. St. Germain 11 gruns (9.8)
		A	pardoned 1942. 870. Chigh. (11.0) lst \$.in Ad. 860. {9.5 weather
		M.	Nat'l Grange W Gr. El. midea 1 9.1 c.
	1	Tu.	fd. 1867. 4 E. Hues (10.0 Jor)
	-		Tides \ 8.8 so late.
		W.	St. Nicholas. Tides (8.5 Getting
		Th.	Pearl Harbor, Tides \\ 8.5 \\ 1941. \\ Immag Cone \(\frac{21}{2} \) \(\frac{2}{3} \) in \(\frac{8.4}{3.4} \)
		Fr.	1щшав. оонь. 824 С. САро. 18.8
1	- 4	Sa.	sunk 1941. 6 4 C. (Eq. \{8.2
1	$0 _{\lambda}$	A	20 S.in Av. Colin Kelly Tides (8.7 8.2)
1	1	M.	Chanukah. Tides $\begin{cases} 9.0 \\ 8.8 \end{cases}$ colder.
1	2	Tu.	Louis E. Kirstein Tides \{ 9.8 \ Snow \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \
1	3	W.	Lucyl Q Stat. in Tides [9.6] may be
1	4	Th.	The halcyon days of C. \\ \begin{array}{c} 9.9 \\ 8.8 \end{array} seen.
1	5	Fr.	Buna occ. yes- terday, 1942. Tides {10.2 Rainy
1	6	Sa.	\(\psi \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \
1	7	Α	35 Sun. in Ad. Thorne Glacier { 9.1 10.6
1		M.	Henry James □ 10. 69 C. {9.2 10.6
1	9	Tu.	Below zero for 1st time \(\begin{array}{ll} 9.2 \\ \text{10.5} \\ \text{17th-then 20th} \end{array} \) \(\text{11} \) \(\text{12} \) \(\text{11} \) \(\text{12} \) \(\text{11} \) \(\text{11} \) \(\text{12} \) \(\text{12} \) \(\text{11} \) \(\text{12} \) \(\text{11} \) \(\text{11} \) \(\text{11} \) \(\text{11} \) \(\text{12} \) \(\text{11} \) \(\text{11} \) \(\text{11} \) \(\text{11} \) \(\text{12} \) \(\text{11} \) \(\text{12} \) \(\text{12} \) \(\text{11} \) \(\text{12} \) \(\te
	- 1	W.	(17th—then 20th). \(\frac{111}{2}\) Peri. \(\frac{9.2}{10.2}\) A
2	1	Th.	St. Thom. Forefather's Win. Oen. V,
2	2	Fr.	$\delta \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \$
2	3	Sa.	Darlan ass. Con in Tides \{9.6 \\ 9.4 \}
2	4	A	4th S. in Ad. (9.8 fine spell
		M.	Thristmas. Will he white at Nantucket 1943? (9.2)
		Tu.	St. Stephen. {\begin{array}{c} 10.4 \\ 9.8 \end{array}} then real winter
2	- 1	W.	St. John, Evang. & & C. \\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\
		Ťh.	Holy Inn. or Childermas. □Ψ⊙. {10.9 a.4
	- 1	Fr.	6\$8.6h C. [28th 8h O.
	- 1	Sa.	\$\timege \text{Gr. Hel.} \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\
3	- 1	Δ	\$\frac{\text{Gr. Hel.}}{\text{Lat. N}} \begin{cases} \begin{cases} \begin{cases} \begin{cases} \begin{cases} \text{Ch.} & \text{Inventory} \\ \begin{cases} \begin{cases} \begin{cases} \text{Ch.} & \text{Inventory} \\ \begin{cases} \begin{cases} \begin{cases} \begin{cases} \begin{cases} \text{Ch.} & \text{Inventory} \\ \begin{cases} \beg

The old year beats a path to our door. We can almost see its end. This is the top of the hill and we may look forward to the new year stretching before us, and back to the paths of the old. And we know pretty much where we are going. This is the month when our home, our hearth, and our family come close—when we may turn again the old familiar pages of books and memories. The white breath of winter finds us ready and secure.

The best of our harvest is a good solid lump of security in our bins. No man owns more than we, nor feels more fully the pride of ownership. The crammed, sweet-smelling lofts, the well-filled silo, our cattle sleek in their stanchions—these are the second harvest and the fullest.

Chores seem less exacting now—and if the wood box cries for filling, there is wood "to burn". Our business grows now from our ease. No other month gives us so fully the chance to survey and plan and repair: a new box stall, another preserve closet for mother, a chance to put the manure spreader in shape and to whitewash the cellar. And a chance, too, to put our own lives in order and weigh truly the meaning of the words "Peace on earth. Good will toward men."

And so farewell as we again turn the page to another year. God be good to you and bless you always."

VENUS, MARS, JUPITER AND SATURN, 1944.

Below are given the times of the rising or setting of the Planets named, on the first, eleventh and twenty-first days of each month. The time of the rising or setting of any one of said Planets between the days named may be found with sufficient accuracy by interpolation. For explanation of keys (used in adjusting times given to your town) see page 6.

" 11th " 5 12A.M. O " 4 40A.M. Q " 7 39P.M. E " 5 5 30A.M. O " 4 40A.M. Q " 7 39P.M. E " 5 5 30A.M. O " 4 40A.M. Q " 7 39P.M. E " 5 5 30A.M. O " 3 18A.M. Q " 1 18 18 18 18 18 18 18 18 18 18 18 18 1	Key Kr
" 11th " 5 58a.m. O " 3 18a.m. Q sets 6 03p.m. E " 4 0 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	8a.m. P 6a.m. P 4a.m. P
" 11th " 5 54a.m. L " 2 23a.m. Q " 5 20a.m. N " 1 3 APRIL 1st rises 5 44a.m. J sets 2 203a.m. Q sets 4 34a.m. N " 12 5 " 11th " 5 33a.m. I " 1 45a.m. Q " 3 35a.m. N " 11 4 " 21st " 5 21a.m. H " 1 27a.m. Q " 3 15a.m. N " 11 4 MAY 1st rises 5 09a.m. G sets 1 08a.m. Q sets 2 35a.m. N " 11 4 " 11th " 4 54a.m. D " 0 27a.m. P " 1 28a.m. N " 10 0 JUNE 1st rises 4 49a.m. C sets 12 03a.m. O sets 12 41a.m. M sets 9 2 " 11th " 4 53a.m. B " 11 40p.m. O " 12 106a.m. M sets 9 2 " 11th " 4 53a.m. B " 11 17p.m. N " 11 31p.m. M rises 5 2	8a.m. P 8a.m. P 9a.m. P
" 11th " 5 33a.m. I " 1 45a.m. Q " 3 54a.m. N " 11 2 2 4 1 1 4 5 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	A.M. P BA.M. P BA.M. P
" 11th " 5 00a.m. E " 0 47a.m. P " 1 58a.m. N " 10 3 21st " 4 54a.m. D " 0 27a.m. P " 1 22a.m. N " 10 0 27a.m. D " 12 24a.m. N " 10 0 3 27a.m. D " 12 25a.m. N " 10 0 3 27a.m. D " 12 25a.m. N " 10 0 3 27a.m. D " 12 25a.m. N " 10 0 3 27a.m. D " 12 25a.m. N " 10 0 3 27a.m. N " 10 0 0 3 27a.	SA.M. P BA.M. P 7P.M. P
" 11th " 4 53A.M. B " 11 40P.M. O N " 12 06A.M. M sets 8 5 21st rises 5 02A.M. A " 11 17P.M. N " 11 31P.M. M rises 5 2	I р.м. Р Эр.м. Р Бр.м. Р
	6р.м. Р 4р.м. Р 2а.м. В
" 11th " 8 42p.m. P " 10 28p.m. M " 10 21p.m. M " 4 0"	A.M. B BA.M. B
" 11th 2 8 33P.M. L " 9 10P.M. J " 8 33P.M. L " 2 2 sts 7 57P.M. L " 1 4	A.M. B A.M. B A.M. B
" 11th " 7 52P.M. H " 7 51P.M. H " 5 36A.M. G " 12 33	
" 11th " 7 19p.m. D " 6 37p.m. F " 4 10a.m. G " 10 4 21st " 7 15p.m. C " 6 14p.m. F " 3 40a.m. G " 10 0	
" 11th " 7 21p.m. A sets 5 27p.m. D " 2 36a.m. H " 8 30 21st " 7 34p.m. A rises 7 34a.m. N " 2 05a.m. H " 7 5	Эр.м. В Р.м. В Эр.м. В
DECEMBER 1st sets	P.M. B BP.M. B BA.M. P

VEGETABLE TIME TABLE

(From planting date to your platter)

Beans. Beets. Cabbage.	70	44	s Melons Onions	105 75	Days "
Carrots			Peas	68	66
Celery	145	6.6	Parsnips	300	4.4
Corn		4.6	(Yes, next Spring)	330	
Cucumbers		4.6	Radishes	25	66
Lettuce	52	- 11	Tomatoes	106	e .
1	* 0				

and turnips, if you're interested, about 85 days.

In years gone by, every herb had its planetary hour. The rule was that the following planets—Sun, Moon, Mars, Mercury, Jupiter, Venus, Saturn—ruled respectively these days of the week—Monday, Tuesday, Wednesday, Thursday, Friday, Saturday, and Sunday. You started at sunrise of the day in question, and during the first hour of sunrise, the planet of the day ruled. During the next hour, the next planet ruled, etc. You'll have to go to the herbs themselves, or page the nearest witch, to find out what difference it made.

MORNING AND EVENING STARS, 1944

(A Planet is called Morning Star when it is above the horizon at sunrise, and Evening Star when it is above the horizon at sunset. More precisely, it is a Morning Star when it is less than 180° west of the Sun in right ascension and Evening Star when it is less than 180° east. When the planet is near conjunction or opposition, the distinction is unimportant.)

Mercury will be favorably situated for being seen as an Evening Star when near its greatest eastern elongations, about April 12, August 10, and December 4. On these dates it will set 1h 47m, Oh 56m, and 1h 15m, respectively, after sunset. It will be seen as a Morning Star when near its greatest western elongations, about January 31, May 29, and September 22, on which dates it will rise 1h 27m, Oh 56m, and 1h 32m, respectively, before sunrise.

Venus will be a Morning Star until June 27 and an Evening Star for the remainder of the year. It will be at its brightest as the year opens and closes, though not even then at the peak brilliance it can attain.

Mars will be an Evening Star until November 14 when it reaches conjunction. It will be a Morning Star from November 14 until the year's end.

Jupiter will be a Morning Star until February 11 when it reaches opposition, an Evening Star from February 11 until it comes to conjunction on August 31, and then a Morning Star again for the remainder of the year.

Saturn will be seen as an Evening Star until its conjunction with the Sun on June 21. From June 21 until opposition on December 28 it will be a Morning Star, then an Evening Star again for the last three days of the year.

THE SEASONS, 1944

By definition the boundary points of the four seasons are the two equinoxes, vernal and autumnal, and the two solstices, summer and winter. These four points refer to particular positions reached by the sun during its annual journey around the zodiac.

As the earth is divided into northern and southern hemispheres by the equator, so the sky is divided into northern and southern hemispheres which envelop the northern and southern hemispheres of the earth respectively and are separated by an imaginary boundary circle called the celestial equator. The equipoxes are those two points on the celestial equator at which the sun crosses from the one celestial hemisphere into the other. The vernal equipox is that point at which the sun passes from the southern into the northern hemisphere, at which time spring begins in the northern hemisphere, while the autumnal equinox is the equivalent point at which the sun passes out of the northern celestial hemisphere into the southern to bring the beginning of autumn. The summer solstice marks the point at which the sun is farthest north of the celestial equator, at which time it passes overhead for observers on the Tropic of Cancer, while the winter solstice is the like point which marks the limit of the sun's journey south of the celestial equator. Then the sun passes overhead for observers on the Tropic of Capricorn. The sun's attainments of the solstices mark the beginning of summer and winter respectively in the northern hemisphere.

Also, see page four for dates the seasons begin.

AVERAGE DATES FIRST AND LAST KILLING FROSTS

Boston Apr. 14 — Oct. 26	Richmond Mar. 31 — Nov. 2
Albany Apr. 24 — Oct. 15	Raleigh Mar. 27 — Nov. 5
Harrisburg Apr. 9 — Oct. 28	Macon Mar. 14 — Nov. 14
Cincinnati Apr. 8 — Oct. 23	Del Rio Feb. 23 — Nov. 27
Toledo Apr. 22 — Oct. 18	Holena May 7 — Sept. 29
Chi Apr. 22 — Oct. 10	Santa Fe Apr. 25 — Oct. 19
Chicago Apr. 16 — Oct. 19	
Detroit Apr. 28 — Oct. 15	Tucson Mar. 11 — Nov. 9
Duluth May 6 — Oct. 5	Yuma Jan. 20 — Dec. 20
Bismarck May 11 — Sept. 21	Portland, Ore Mar. 15 — Nov. 21
Omaha Apr. 14 — Oct. 15	San Francisco . Jan. 13 — Dec. 29

ECLIPSES FOR THE YEAR 1944

In the year 1944 there will be two Eclipses, the minimum for any one year, both of the Sun.

I. A Total Eclipse of the Sun, January 25, 1944, invisible in its total phase anywhere in the United States. As a relatively minor partial eclipse it will be visible in the United States south of a line that follows approximately the northern borders of Florida, Texas and New Mexico and then dips diagonally across Arizona to the northern reaches of the Gulf of California. For observers in southeastern Arizona, New Mexico and western Texas, the eclipse will be a sunrise phenomenon. Only observers in eastern Texas, Louisiana, southern Mississippi and Florida will have a satisfactory view. The times and magnitude of the eclipse in certain cities are given in the table which follows; the times for other places in the Central War and Eastern War Time zones will differ but a few minutes from these.

	Galveston CWT	Fort Worth CWT	New Orleans CWT	Miami EWT
Eclipse begins	8:37 A.M.	8:49 A.M.	8:52 A.M.	9:53 A.M.
Middle of eclipse	9:07 A.M.	9:08 A.M.	9:13 A.M.	10:24 A.M
Eclipse ends	9:38 A.M.	9:29 A.M.	9:35 A.M.	10:55 A.M
% Sun's radius covered				
at maximum phase	11%	5%	4%	8%

Outside the United States the eclipse will be easily visible as a partial one, the magnitude of which will depend on the proximity of the observer to the path of totality, throughout Central America, the Caribbean, South America north of Latitude 40° South, the Pacific in the area approximately described as extending east from Longitude 105° West and lying between Latitude 20° North and Latitude 40° South, and in the Atlantic zone which lies approximately between Latitude 30° North and Latitude 25° South. At or close to sunset the eclipse will be visible as a partial one in western France, Spain, Portugal, the western Mediterranean, French West Africa, all but the eastern fringe of the Congo, and in northern Angola.

The path of totality, about 90 miles wide, extends from Longitude 111° 59′ West, Latitude 3° 23′ North, a point approximately 2,500 miles west of Colombia, across northern Peru, north central Brazil and the South Atlantic, to the coast of Africa at Sierra Leone, thence across French West Africa to end at Longitude 9° 23′ East, Latitude 18° 48′ North, a point in the southern Sahara. The maximum duration of the total phase, visible to an observer in central Brazil, will be 4 minutes 9 seconds.

II. An Annular Eclipse of the Sun, July 19-20, 1944, invisible in the United States. The path of the annular phase, about 70 miles wide, extends from Longitude 33° 25′ East, Latitude 3° 30′ North, a point in northern Uganda where the eclipse is in progress at sunrise, across Ethiopia, the Somalilands, the Arabian Sea, Central India, Lower Burma, Thailand and French Indo-China, into the Pacific to pass north of Borneo, south of the Philippines and just off the north coast of New Cuinea, to end at Longitude 154° 20′ East, Latitude 6° 57′ South, a point in the Solomons close by Bougainville. The maximum duration of the annular phase, as observed from a point on the central line in Lower Burma, will be 3 minutes 42 seconds.

As a partial eclipse, the magnitude of which decreases with the increasing distance of an observer from the path of the annular phase, the phenomenon is visible throughout the Near and Middle East, East Africa, the Indian Ocean, southern Russia, all East Asia, western Australia, and Melanesia.

OCCULTATIONS OF ALDEBARAN, 1944

No occulations of the bright star Aldebaran (Alpha Tauri) will be visible to observers in or near Boston during 1944.

EXPLANATION OF ASTRONOMICAL TERMS USED IN THE OLD FARMER'S ALMANAC

The Sun is the pivot about which eight Planets and many smaller bodies, called collectively the Asteroids, revolve. The principal Planets, in order of distance from the Sun, are Mcrcury, Venus, the Earth, in order of distance from the Sun, are Mcrcury, In order of distance from the Sun, are Mercury, Venus, the Earth, Mars, Jupiter, Saturn, Urauus, Neptune and Pluto. Of these Venus, Mars, Jupiter, and Saturn are brilliautly conspicuous to the naked eye. Mercury also is bright but found only with some difficulty. A Planet may be distinguished from the "fixed" stars by its comparatively steady light, and, if watched for a few nights, by the fact that it does not remain fixed relative to apparently neighboring stars. Each Planet, except Mercury, Venus, and Pluto, is likewise the pivot for the revolution of a moon or moons. Of these only the Moon which revolves about the Earth is visible to the naked ever in aggregate revolves about the Earth is visible to the naked eye. In aggregate

these several bodies largely constitute the Solar System.

Because each member of the Solar System, except the pivotal Sun, moves constantly along a closed path unique to it and at its own particular speed, the relative positions of the members of the system as seen from the Earth constantly change. A description of the relative position of two or more of these bodies at any time is called the Aspect of the bodies.

The most general possible description of the position of a member of the solar system with respect to the Sun is through its elongation. Elongation (El.) is the apparent angular distance of the member from the Sun as seen from the Earth. The maximum possible value of the elongation is 180° at which time the Sun and the Moon or Planet appear on opposite sides of the sky. The term applied to this particular aspect is Opposition (8). One also distinguishes an elongation of exactly 90° by the term Quadrature (

) which means that the Moon or a Planet lies a quarter turn of the sky from the Sun. Quadratures and elongations are further described as East (E) or West (W). East when the Planet sets after the Sun, West when it West (W). East when the Planet sets after the Sun, West when it sets before the Sun. Of most general application is the term Conjunction (d), used with reference to any two heavenly bodies and referring to the moment of their closest apparent approach to each other. When an object is at or near conjunction with the Sun, it is invisible, lost in the Sun's glare.

Of the Moon and the eight Planets, Mercury and Venus alone never

reach quadrature or opposition. Because their orbits about the Sun are smaller than the Earth's, they appear to oscillate from one side of the Sun to the other and back, attaining maximum elongations which average 47° for Venus and 23° for Mercury. Since Mercury is always therefore on the average less than 23° from the Sun, it is difficult to see and is most easily visible only when furthest from the Sun at or near the times of its Greatest Elongations (Gr. El.) as given under Aspects in the Calendar pages. Between the times of greatest elongation, Mercury and Venus are in conjunction with the Sun, once with the Planet between the Earth and Sun and again, half a revolution later, with the Sun between the Planet and the Earth. The former conjunction is denoted as Inferior (Inf.), the latter as Superior (Sup.). Conjunctions of the other Planets are always superior. reach quadrature or opposition. Because their orbits about the Sun superior.

The sequence of major aspects for Mercury and Venus, is inferior conjunction, greatest elongation west, superior conjunction, greatest elongation east and back to inferior conjunction again. For the other Planets the sequence is conjunction, quadrature west, opposition,

Planets the sequence is conjunction, quadrature west, opposition, quadrature east, and back to conjunction again.

The four principal Phases of the Moon are closely related to aspects of the Moon and the Sun. New Moon occurs when the Sun and Moon are in conjunction; First Quarter when the Moon is almost exactly in quadrature east, or, more precisely, when, of the side of the Moon toward the Earth, exactly one half is illuminated; Full Moon when the Moon reaches opposition: and Last Quarter when the Moon is almost exactly in quadrature west. A more general description of the Moon's phase is the Moon's Age. This is reckoned in days starting at New Moon. The Moon's maximum age is 29½ days, representing the average time which elapses between successive days, representing the average time which elapses between successive New Moons. Moon Souths denote the times when the Moon is exactly above the south point of the observer's horizon

There are other, more general systems of defining the positions not only of members of the Solar System, but of all celestial objects. The system most generally used is a celestial analogue of terrestrial longitude and latitude. As the points where the axis of rotation of

the Earth pierces its surface are known as the Poles, North and South respectively, so the points where the axis of rotation of the Earth extended would pierce the celestial sphere are known as the Celestial Poles, North and South. It is on these as pivots that the Celestial Poles, North and South. It is on these as pivots that the celestial sphere appears to rotate daily. As the earth's equator is an imaginary circle that divides the earth into two like hemispheres centered on the terrestrial poles, so an imaginary circle, the Celestial Equator, divides the celestial sphere into two hemispheres centered on the celestial poles. Celestial Declination (Dec.) is the measure of the angular distance any celestial object lies perpendicularly north or south of the Celestial Equator. It is 0° for an object on the Celestial Equator and increases to 90° at the North and South Celestial Poles. Celestial Declination is thus exactly analogous to terrestrial latitude. Similarly celestial Right Ascension (R.A.) is the analogue of terrestrial longitude and is the measure of the angular distance along the Celestial Equator from the Vernal Equinox (See distance along the Celestial Equator from the Vernal Equinox (See The Seasons, page 33) to the point where that circle which passes through the object perpendicular to the Celestial Equator intersects the latter. Unlike terrestrial longitude Right Ascension is always measured in one direction, eastward along the equator from the Vernal Equinox or to the left from the Vernal Equinox for an observer in the northern hemisphere facing the south. It ranges in value from 0° to 360° or, in time equivalents, from 0 hours to 24 hours.

The second system of defining position uses the Ecliptic as the primary reference circle. The Ecliptic, like the Celestial Equator, is an imaginary circle that divides the colorial sphere into two hours.

an imaginary circle that divides the celestial sphere into two hemispheres. It is specifically that circle in which the plaue of the orbit of the Earth about the Sun would, if extended, cut the celestial sphere. The Sun as seen from the Earth always lies on the Ecliptic which is they appropriate the sun treatment with the Sun treatment. which is then, observationally, the apparent path the Sun traces in the sky in a year due to the Earth's annual revolution about it. The Ecliptic is inclined at an angle of 23½° to the celestial equator. Positions of objects referred to the Ecliptic are called celestial Longitude (Lo.) and Latitude (Lat.). Celestial Latitude is the measure of the angular distance an object lies perpendicularly north or south of the Ecliptic and celestial Longitude the measure of the arc of the Ecliptic that lies between the Vernal Equinox and that circle through the object which intersects the Ecliptic at right angles. Like Right Ascension it is always measured eastward from the Vernal Equinox. It is particularly to be noted that these coordinates, used primarily in defining the positions of members of the Solar System, are not analogous to terrestrial longitude and latitude. Celestial are not analogous to terrestrial longitude and latitude. Celestial Longitude and Latitude are further described as Geocentric (Geo.) and Heliocentric (Hel.), in the former fashion if the observer in measuring them is assumed to occupy an imaginary position at the center of the Earth, the latter if the position of observation is assumed to be at the center of the Sun. Such use of the centers of celestial objects in measurements of position is basic to astronomical calculations involving interrelationships of objects.

Other terms of position used in reference to members of the Solar System arise from their orbital motions under the Law of Gravita-

System arise from their orbital motious under the Law of Gravita-tion. By the Law of Gravitation the closed orbit of one body about a second must be an ellipse inside which the controlling member of the pair occupies an off-center position. Under the gravitational influence of the Sun a Planet moves along its orbit in such a way that the greater the Planet's average distance from the Sun, the less is the greater the Planet's average distance from the Sun, the less is its average linear speed along its orbit. One consequence of this difference in the relative orbital speeds of the Earth and the Planets more distant from the Sun than the Earth is that, just before such a Planet comes to opposition, its apparent movement from right to left across the background of stars stops. For a time the Planet moves from left to right before once again it becomes stationary and thereafter resumes its normal progress toward the left. The so-called Stationary Points define the limits of this retrograde motion. Opposition occurs on a day about midway between the dates on which the Planet is stationary.

which the Planet is stationary.

When a Planet in revolving about the Sun reaches the point of its orbit that lies closest to the Sun, it is said to be in Perihelion (Peri.), while at its furthest point it is said to be in Aphelion (Aph.).

Synonymous terms applied to the Moon's revolution about the Earth are Perigee (Peri.) and Apogee (Apo.).

Since the Ecliptic is uniquely defined by the plane within which the Earth's orbit about the Snn lies, the planes of the orbits of all other members of the Solar System lie at angles to the plane of the Ecliptic. These angles are in the main very small, yet, though small

necessitate that each member of the Solar System but the Earth pass through the plaue of the Ecliptic twice in each complete revolution about the Sun. When a Planet or the Moon in its motion crosses the Ecliptic, it is said to be at a Node. If its motion carries it from north of the Ecliptic to south of it, the Node is called the Descending Node (3); a crossing in the opposite direction occurs at the Ascending Node ().

When conjunction or opposition of the Sun and the Moon occurs when conjunction or opposition of the Sun and the Moon occurs when conjunction or opposition of the Sun and the Moon occurs when we have the sun and the Moon occurs when the sun and th with the Moon at or near a node, there will be an Eclipse. At coujunction the eclipse will be a Solar Eclipse, at opposition a Lunar Eclipse, since the Moon will enter the shadow of the Earth. This shadow in the region through which the Moon passes during an eclipse consists of a central portion of deep shadow, the Umbra, surrounded by a concentric area of partial shadow, the Penumbra. An eclipse may be Partial or Total according as the body is partly or wholly obscured. A lunar eclipse is partial or total only in respect to that degree to which the Moon enters the umbra of the Earth's shadow. If the Moon passes only through the penumbra, the phenomenon is called an Appulse. An eclipse of the Suu may be partial or total or it may be an Annular Eclipse, in which case the Moon, though it becomes centered on the disk of the Sun, is so far from the Earth that its apparent diameter is less than the Sun's aud a ring, or annulus, of sunlight shows around the Moon at maximum eclipse. Occultations are eclipses of stars by the Moon. Most conspicuous of these to the naked eye are the occultations of the bright star Aldebaran, the times for which are tabulated in the Almanac, star Aldebaran, the times for which are tabulated in the Almanac, page 34.

since the inclination of the orbits of the Planets and the Moon relative to the plane of the Ecliptic are small, the Moon and the Planets never wander outside a belt of sky that has a width of sixteen degrees and the center line of which is the Ecliptic. This belt is called The Zodiac. The ancients divided the Zodiac into twelve equal divisions called signs and gave to each division the name of the coustellation found within it. One speaks then of the Signs of the Zodiac, which are in order: Aries, Taurus, Gemini, Cancer, Leo, Virgo, Libra, Scorpio, Sagittarius, Capricornus, Aquarius, and Pisces. The Moon's Place, as tabulated in the Almanac, refers to the sign of the Zodiac in which the Moon lies.

Of the terms used in the Almanac under Chronological Cycles, Epact and Roman Indiction are used in reckoning ecclesiastical calendars, the Dominical Letter, Golden Number, and year of the Solar Cycle in

Dominical Letter, Golden Number, and year of the Solar Cycle in reckoning civil calendars. The Julian Period is a period which harmonizes chronological cycles. The first year of the Julian Period was 4713 B.C. Its length is 7980 Julian years. The designation of a year in the Julian Period is intelligible to any chronologist, whatever may be his religion.

LENGTH OF TWILIGHT

Subtract from time of sunrise for dawn. Add to time of sunset for dark

Latitude	25°N	31°N	37°N	43°N	48°N
	to	to	to	to	to
	30°N	36°N	42°N	47°N	49°N
Jan. 1 to Apr. 11 Apr. 11 to May 3 May 3 to May 15 May 15 to May 26 May 26 to July 23 July 23 to Aug. 4 Aug. 4 to Aug. 15 Aug. 15 to Sept. 6 Sept. 6 to Dec. 31	h m 1 20 1 23 1 26 1 29 1 32 1 29 1 26 1 23 1 20	h m 1 26 1 28 1 34 1 38 1 43 1 38 1 28 1 26	h m 1 33 1 39 1 47 1 52 1 59 1 52 1 47 1 39 1 33	h m 1 42 1 51 2 02 2 13 2 27 2 13 2 02 1 51 1 42	h' m 1 50 2 04 2 22 2 42 2 42 2 22 2 04 1 50

TIDE CORRECTIONS

For full explanation of use, see page 5.

To obtain the time and height of high water at any place, apply the differences in accordance with the sign given to the daily predictions for Boston (Commonwealth Piers). Where a value in the "height difference" column is preceded by a *, the height at Boston should be multiplied by this ratio.

neight at Doston should be mu			
Time	Height	Time	Height
Differ-		Differ-	Differ-
ence	ence	ence	ence
h.m.	Feet	n.m.	Feet
MAINE	40.4	PENNSYLVANIA	40 =
Augusta +3 50	*0.4	Philadelphia +2 29	*0.5
Bangor —0 05	+3.6	DELAWARE	
Bar Harbor —0 33	+1.1	Rehoboth3 37	*0.4
Boothbay Harbor . —0 20	-0.8	100000m —3 38	.0,3
Eastport0 28	*1.9	MARYLAND	
Uld Orenard —U 10	-0.7	Baltimore4 25	*0.1
Portland —0 10	-0.6	Ocean City —3 57	*0.4
Stonington —0 30	+0.2		
NEW HAMPSHIRE		DISTRICT OF COLUMBIA Washington —3 08	40.0
Hampton +0 15	-1.2	washington —3 08	*6.3
	1.2	VIRGINIA	
MASSACHUSETTS		3.7 (1) 4 44	*0.3
Fall River —3 16	*0.5	Virginia Beach . —1 54	*0.3
Falmouth —0 40	*1.1		0.0
Hyannisport +0 45	*0.3	NORTH CAROLINA	
Lynn +0 05	-0.2	Beaufort —2 59	*0.3
Marblehead —0 05	-0.3	Beaufort2 59 Carolina Beach3 30	₩0.4
Lynn +0 05 Marblehead0 05 Marion3 16	*0.4	SOUTH CAROLINA	
Monument Beach -3 06 Nantasket - +0 10	*0.4		#0.2
Nantasket +0 10	+0.1	Myrtle Beach —3 45	*0.5
Nantucket +0 50	*0.3	Charleston —3 15	*0.5
Nantucket +0 50 New Bedford3 21 Oak Bluffs +0 05	*0.4	GEORGIA	
Oak Bluffs +0 05	*0.2	St. Simon's Island -2 51	*0.7
Onset —3 06	*0.5	Savannah —2 40	₩0.8
Plymouth 0 00	+0.1	Tybee Beach3 26	*0.8
Onset	-0.3		0,0
Scituate —0 05	-0.5	FLORIDA	
Wellfleet +0 20 Woods Hole3 01	+0.6	Daytona —3 20	*0.4
woods Hole —3 01	*0.2	Fort Lauderdale . —2 15	*0.3
RHODE ISLAND		Jacksonville0 40	*0.1
Block Island3 21	*0.3	Miami —3 00	*0.3
Narragansett Pier -3 31	*0.4	Palm Beach —3 20	*0.3
Newport —3 31	*0.4	Port Everglades . —2 15	*0.3
Providence3 11	*0.5	St. Augustine —2 20	*0.5
Watch Hill2 06	*0.3	St. Petersburg +3 58	*0.2
	0.0	WASHINGTON	1
CONNECTICUT		Ilwaco 41 44	-3.5
Long Island Sound -0 02	*0.7	Ilwaco +1 44 Port Townsend . +5 04	*0.5
New London —1 47	*0.3	Seattle +5 37	-2.0
NEW YORK			
Coney Island —3 00	*0.5	OREGON	
Long Beach3 57	*0.5	Astoria +1 37 Cape Arago +1 19	-3.3
Long Island Sound ±0.08	*0.7	Cape Arago +1 19	-4.8
Long Island Sound +0 08 New York City -2 50	*0.5	Yaquina Head +1 12	— 3.7
Ocean Beach3 57	*0.4	CALIFORNIA .	
Southampton3 22	*0.3	Catalina Island1 33	-5.9
	0.0	Crescent City +0 56	-5.0
NEW JERSEY		西ureka +1 20	5.0
Atlantic City —3 57	*0.5	Long Beach —1 37	-5.5
Bayside —0 24	*0.6	Monterev	*0.4
Cape May —3 37	*0.5	Point Mendocino . +0 24	*0.4
Ocean City3 17	*0.4	San Diego —1 35	-5.9
Seabright		San Francisco +0 59	*0.4
to —3 44	*0.5	Santa Barbara —1 19	-6.0
Seaside Park	1	Santa Cruz +0 08	*0.4

TECHNICALLY SPEAKING

Sunrise and sunset in the OFA are for the visible rising and setting of the sun's upper limb across the unobstructed horizon by an observer whose eyes are fifteen feet above ground level.

Twilight begins or ends when stars of the sixth magnitude disappear or appear at the zenith—or the sun is appr. 18 degrees below the horizon.

1943-4 GAME LAWS

Open seasons include both dates, "Rabbit" includes hare; "quail" includes "partridge" In South; "grouse" includes Canada grouse, sharptailed, rufied (known as partridge in North and pheasant in South) and all other members of family, except prairie chickens, ptarmigan and sage hens. States marked (*) did not have complete laws available at press time. VERIFY these tables — we can not guarantee them.

o males only. *Season not announced. †Local exceptions.

					1
State and Species	Seasons	Limits, Sesson	State and Species	Season	Limits. Season
Alabama Deer Bear Rahhit Squirrel	Nov. 20-Jan. 1 on No open season Oct. 1-Feh. 20 (N-Oct. 1-Jan. 1 (S-Oct. 15-Jan. 15 Nov. 14-Feb. 20	3	Delaware* Rabhit Squirrel Quall Pheasant	Nov. 15-Dec. 31 Sept. 15-Nov. 1 Nov. 15-Dec. 31 Nov. 15-Dec. 31	6
Quail Pheasant Turkey	No open season (Nov. 20-Jan. 1† o (Mar. 20-Apr. 15† o	5	Florida* Deer Squirrel Quail Grouse, pheasant	Nov. 20-Dec. 31† 6' Nov. 20-Feh. 15† Nov. 20-Feh. 15† No open season	2
Deer Moose	Sept. 16-Nov. 15† & N-Sept. 1-Sept. 30 & Dec. 1-Dec. 31	2† 1	Turkey	Nov. 20-Feb. 15†	5
Bear Carlbou ` Mountain goat Mountain sheep Grouse	Dec. 1-Dec. 31 S-Nov. 16-Jan.15 & Sept. 1-June 20 (Sept. 1-Sept. 30 Dec. 1-Dec. 31 Sept. 16-Nov. 15† N-Sept. 1-Sept. 30 Sept. 1-Jan. 31 Sept. 1-Jan. 31	2† 2† 2 2†	Georgia* Deer Bear Squirrel Quall Grouse, ph's's Turkey	Nov. 15-Jan. 5† 3 Nov. 20-Feh. 28 Oct. 1-Jan. 15† Nov. 20-Mar. 1 No open season Nov. 20-Mar. 1†	2
Ptarmigan Arizona*			Rabhit	No closed season	
Deer { Bear Elk Rabblt Abert Squirrel Qual	N-Oct.16-Nov.15 & S-Nov. 1-Nov. 30† & Oct. 16-Nov. 15† Nov. 1-Nov. 30† & Nov. 1-Jan. 31† Aug. 16-Nov. 15† Nov. 21-Dec. 20†	1 1 1	Idaho Deer, elk Antelope Bear Goat Sheep Quall (Bob-	Local seasons Jocal seasons Jan. 1-Dec. 31† Oct. 10-Oct. 25† No open season	1 1 1
Grouse, pheasant Turkey Antelope Arkansas	Oct. 16-Nov. 15† By Permit† &	2	white) Quail (others) Grouse Prairle chicken Hun, partridge	Local seasons Oct. 24-Nov. 21† Sept. 7-Sept. 28† No open season Local seasons	
Deer	Nov.11-Nov.15† & Dec. 9-Dec. 13† &	1	Hun, partridge Sage hen Pheasant	Local seasons Local seasons	
Bear	No open season (May 15-June 15†			Local seasons	
Squirrel Quail Prairie chicken, pheasant Turkey California	May 15-June 15† Oct. 1-Jan. 1† Dec. 1-Jan. 31 No open season Apr. 1-Apr. 15 o	2	Illinois* Deer Rahhit Squirrel Quali Pheasant Turkey, grouse	No open season Nov. 10-Jan. 15 Aug. 1-Nov. 15† Nov. 10-Dec. 10 Nov. 10-Nov. 19 o ⁷ No open season	
Deer Antelope (by permit) Bear Rahhit Squirrel Quail Grouse Pheasant	Aug. 1-Nov. 15† σ May 20-Sept. 30 σ Oct. 15-Dec. 31† Nov. 15-Dec. 31† No open season Nov. 15-Dec. 31† No open season Nov. 27-Dec. 11 σ	2† 1 2	Indiana Deer Rabhit Squirrel Quail Grouse Prairle chicken Pheasant	No open season Nov. 10-Jan. 10 Aug. 10-Oct. 8 Nov. 10-Dec. 20 No open season No open season Nov. 10-Nov. 19 5 Nov. 10-Dec. 20	
Turkey Colorado Deer Elk Antlerless deer	Oct. 9-Nov. 7† 3' Oct. 9-Nov. 15† 3' Special seasons	1	Hun. partridge Turkey, chukar partridge	Nov. 10-Dec. 20 No open season	
and elk by permit Bear Sheep Quall Grouse Prairie chicken Sage hen Pheasant Rabbit		1	Iowa* Deer Rahbit Squirrel Pheasant Quaii Prairie chicken Hungarian partridge	No open season Aug. 1-Mar. 1 Sept. 15-Nov. 15 Nov.12-Nov. 14† 5' Nov. 15-Dec. 15' No open season Nov. 12-Nov. 14†	
Connecticut Deer Rahhit Squirrel Quali Pheasant Grouse Hungarian partridge	No open season Nov. 1-Dec. 31 Oct. 23-Nov. 27 No open season* Oct. 23-Nov. 27 Oct. 23-Nov. 27 No open season	30 30 15 15	Kansas Deer Squirrel Quail Grouse Pheasant Prairle chicken	No open season June 15-Nov. 30 Nov. 20-Nov. 30 No open season Nov. 8-Nov. 14† ° Oct. 21, 22	25 6

Contracky Contract					The state of the s	5
Decisional Person Deci	Dcer Rabbit Squirrel Quali Grouse, pheas-	Nov. 24-Jan. 9 Aug. 15-Oct. 31 Nov. 24-Jan. 9		Deer Bear Eik Goat Sheep Carlbou	Sept. 15-Oct. 15† Oct. 15-Nov. 15† Local seasons† No open season	1 1 1 1
Maine Doer No open season No ope	Deer Bear Rabbit Squirrcl Quali	Nov. 1-Jan. 1 Oct. 1-Mar. 1 Oct. 1-Jan. 15 Dec. 1-Feb. 20	120	Quail, turkey Sage hen Hun. partridge Pheasant Nebraska*)	
Deer Dec. 6-Dec. 11† \(\sigma\$ Rabbit Nov. 15-Dec. 31† Saguirrel Sept. 15-Dec. 31† Nov. 15-De	Maine Deer Moose Bear Rabbit Squirrel Pheasant	Local seasons No open season No closed season Oct. 1-Feb. 28† Oct. 1-Oct. 31 Nov. 1-Nov. 14		Rabbit Squirrel Quall, grouse, prairle chicken, turkey Pheasant	No closed season Oct. 15-Dec. 31 No open season* (Oct. 15-Nov. 2† 3	
Turkey	Maryland Deer Rabbit Squirrel Quali	Dec. 6-Dec. 11† & Nov. 15-Dec. 31†		Deer Rabbit Quall Pheasant Sage hen	Nov. 1-Dec. 31† Oct. 11-Oct. 25†	1
Rabbit Cot. 12-Nov. 20	Pheasant Turkey	Nov. 15-Dec. 31†	6 4	Deer Bear Rabbit, hare Squirrel	No closed season	1
Michigan Deer (bow & Nov. 15-Nov. 30† of arrow) Bear Rabbit Squirrel Oct. 15-Nov. 5† U-Oct. 15-Nov. 5† U-Nov. 16-Nov. 25† Nov. 16-Nov. 25† Nov. 11-Nov. 20† Nov. 11-Nov. 21† Nov.	Deer Rabbit, hare Squirrei Quali	Dec. 7-Dec. †12 Oct. 20-Feb. 15† Oct. 20-Nov. 20 Oct. 20-Nov. 20† Oct. 20-Nov. 20	15 20	Grouse Pheasant New Jersey	Nov. 1-Nov. 16† ♂	25 4
Sept 15-Nov. 30† 1 1 1 1 1 1 1 1 1	Michigan Deer Deer (bow &		6 ♂	Rabbit, squirrel Quail Grouse	Nov. 10-Dec. 15 Nov. 10-Dec. 15t	
Pheasant Quali and turkey Woodchuck No open season L-Oct. 15-Nov. 5† No open season L-Oct. 15-Jan. 31	Bear Rabbit Squirrel (fox and gray) Grouse, prairie	Nov.15-Nov. 30† {U-Oct. 1-Mar. 1 {L-Oct. 15-Jan. 31† L-Oct. 15-Nov. 5	1 50 25	Deer Elk Bear Goat, sheep Antelope	Nov. 11-Nov. 21† o' Nov. 11-Nov. 21† No open season Shooting by	
Deer Squirrel Rabbit Squirrel Deer Squirrel Pheasant Nov. 15-Nov. 25† Oct. 15-Dec. 31 Missisppi Deer Squirrel Cot. 25-Jan. 1† No open season Squirrel Local seas. 5 zones Quali Grouse, pheasant Turkey Grouse, prairie chicken Squirrel Squ	Pheasant Quail and turkey Woodchuck	L-Oct. 15-Nov. 5†	6	white&Mearn's) Blue grouse Prairie chicken Placasant Furkey	No open season No open season Oct. 24-Oct. 26† ♂ Nov. 11-Nov. 21†	
Deer Deer Dec. 25-Jan. 1† Deer Rabbit, squirrel Quall Grouse, pheasant Dec. 10-Feb. 20 Missouri Deer No open season Apr. 1-Apr. 20 or 1 Bear Doc. 10-Feb. 20 Missouri Deer No open season Apr. 1-Apr. 20 or 1 Deer Rabbit Nov. 1-Dec. 31 Nov. 25-Feb. 10 Oct. 1-Jan. 1† or 3 Oct. 1-Jan. 1† or	Deer Bear Squirrel Prairie Chicken, sh'tail grouse Grouse Quall Pheasant	Sept. 19-Sept. 28† ISept. 25-Nov. 21† Oct. 31-Nov. 16† Oct. 17-Nov. 8		New York Deer Bear Rabbit Squirrel Quall Grouse	Oct. 20-Nov. 30† o' Nov. 1-Nov. 30† Oct. 18-Jan. 31† Oct. 18-Nov. 15 No open season Dates not set	1 1
Deer Cot. 1-Jan. 1† or 3 Oct. 1-Jan. 1† or Oct. 1-Jan. 1† or Oct. 1-Jan. 1† or Oct. 1-Jan. 1† Oct. 1-Jan. 15† Oct. 1-Jan	Deer Bear Rabbit Squirrel	Dec. 25-Jan. 1† No open season No closed season Local seas. 5 zones	1	Deer Rabbit, squirrel Quall Grouse Pheasant	No open season Nov. 1-Dec. 31 Nov. 1-Dec. 31 Nov. 1-Dec. 31* Nov. 1-Dec. 31 3	15
chicken Pheasant Rabbits, groundhogs No open season No open season No open season No open season Order, prize Deer Quall Grouse (All) Pheasant Sept. 25-Oct. 24† Dates not set	Grouse, pheasant Turkey Missouri Doer Squirrel Quail	No open season Apr. 1-Apr. 20 o	1	Deer Bear Rabbit Squirrel Quail Grouse Turkey	Oct. 1-Jan. 1† ♂ Oct. 1-Jan. 1† Nov. 25-Feb. 10 Oct. 1-Jan. 15† Nov. 25-Feb. 10 Nov. 25-Jan. 1* Nov. 25-Feb. 10	2 150 10
	Turkey Grouse, prairie chicken Pheasant Rabbits,	No open season Nov. 10-Dec. 31†		North Dakota Deer Quail Grouse (All) Pheasant	No open season No open season Sept. 25-Oct. 24† Dates not set	2

Ohlo Deer Rabbit Squirrel Quail Pheasant Hun. partridge Grouse	No open season Nov. 19-Jan. 11 Sept. 15-Sept. 30† No open season Nov. 19-Dec. 4 d Nov. 19-Dec. 4 Nov. 19-Dec. 4		Utah Deer Elk (By permit) Grouse, sage hen, prairie chicken {Pheasant {Quail	Oct. 16-Oct. 26† ♂ No open season Oct. 30-Nov. 4	1 1
Oklahoma Elk Squirrel Quail Prairie chicken Pheasant, turkey	No open season May 15-Jan. 1 Nov. 20-Jan. 2† - No open scason No open season		Vermont Deer Squirrel Rabbit Quall Grouse Pheasant	Nov. 21-Nov. 30† & Oct. 1-Oct. 31 Oct. 1-Feb. 28 Oct. 1-Oct. 31 Oct. 1-Oct. 31 Oct. Sat. & Wed.	1 25 25
Oregon Deer Elk Antelope Mountain goat Mountain sheep Squirrel Quail Grouse Pheasant Hun. partridge Prairie chicken, sage hen, turkey	Oct. 1-Nov. 31 of Oct. 26-Nov. 30 Sept. 18-Oct. 3 No open season Sept. 15-Oct. 20 Oct. 16-Nov. 7†	1 1 1	Virginia* Deer Bear Elk Rabbit Squirrel Quall Grouse Pheasant	Nov. 20-Jan. 1† 67 Nov. 20-Dec. 31† Nov. 9, 10, 11 Nov. 20-Jan. 20† (Sept. 1-Sept. 15 Nov. 20-Jan. 20 (E-Nov. 20-Jan. 20 W-Nov. 20-Jan. 5	1 1 75 75 75 125
Pennsylvania Deer Bear Rabbit Squirrel Quall Ruffed grouse Phessant Turkey Hun. partridge Woodchuck	Nov. 30-Dec. 12 of Nov. 18-Nov. 21 Oct. 31-Nov. 28 Oct. 31-Nov. 28 Oct. 31-Nov. 28 of Oct. 31-Nov. 28 of Oct. 31-Nov. 28 of Oct. 31-Nov. 28 of Oct. 31-Nov. 14 July 1-Sept. 30	1 20 20 15 10 12 1 8	Turkey Washington* Deer Bear	Oct. 24-Oct. 25† of (E-Oct. 4-Oct. 4-Oct. 4-Oct. 25† of (E-Oct. 4-Oct. 4	20† 4†
Rhode Island Deer Rabbit Hare Squirrel' Quail Grouse Pheasant	No open season Nov. 1-Dec. 31 Nov. 1-Dec. 31 Nov. 1-Dec. 31 Nov. 1-Dec. 31 Nov. 1-Dec. 31† Nov. 1-Dec. 31 d		Elk Rabbit Squirrel Grouse Quall Pheasant Hungarlan partridge	W-Oct. 4-Jan. 31† Nov. 1-Nov. 11† o Oct. 18-Feb. 28† Oct. 1-Oct. 31† Oct. 4, 5, 11† Oct. 18-Nov. 8†	50 150 25
South Carolina Deer Rabbit Squirrel Quail Grouse Turkey South Dakota	Aug. 15-Jan. 1† σ Sept. 1-Mar. 1† Sept. 1-Mar. 1† Nov. 25-Mar. 1† No open season Nov. 25-Mar. 1† σ	20	West Virginia* Deer Rabbit Squirrel Quail Grouse Turkey Pheasant	Nov. 30-Dec. 3 d Nov. 11-Jan. 9 Oct. 15-Nov. 28 Nov. 11-Dec. 19† Oct. 15-Dec. 12† Oct. 15-Nov. 21† Nov. 11-Nov.28† d	1 24 24 42 15
Deer Antelope, sheep Quall Grouse, prairle chicken Pheasant Hun. partridge	Nov. 1-Nov. 20† ♂ No open season No open season No open season Sept. 26-Dec. 24† Sept. 26-Oct. 25†	1	Wisconsin Deer Deer (bow & arrow) Bear Moose Rabbit, bare	Nov. 21-Nov. 29† o' Oct. 10-Nov. 10† Nov. 21-Nov. 29†	1 1
Tennessee Deer Bear Rabbit Squirrel Quail Grouse Turkey Wild boar	Special seasons Special seasons Nov. 25-Jan. 25 Aug. 1-Dec. 31† Nov. 25-Jan. 25 Nov. 25-Jan. 25 No open season† Special seasons	1†	Squirrel Grouse Prairie chicken Pheasant Hun. partridge Quail Wyoming	Oct. 31-Jan. 15† Oct. 17-Nov. 15 Sept. 19-Nov. 15 Oct. 17-Nov. 15† Oct. 17-Nov. 15† Nov. 11-Nov. 15†	
Texas Deer Bear Peccar; Squirrel Quail Grouse, pheasant Prairle chlcken Turkey	Nov. 16-Dec. 31† & Nov. 16-Dec. 31† (Oct. 1-Dec. 31† (May 1-July 31† Dec. 1-Jan. 16† No open season Nov. 16-Dec. 31† & Nov. 16-Dec. 31†	2† 1 2	Deer Moose Elk Bear Sheep Antelope Quall Prairle chicken Grouse Pheasant Sage hen Hun. partridge	Local season of Local seasons of Local seasons of Local seasons Local seasons to Local season No open season No open season No open season Oct. 1-Nov. 30† of No open season Oct. 3-Oct. 8†	111111

MIGRATORY GAME BIRDS—UNITED STATES

DUCK, GOOSE, BRANT AND COOT

Northern Zone, Sept. 25-Dec. 3 — Maine, Michigan, Minnesota, Ohio, Montana, New Hampshire, North Dakota, Pennsylvania, South Dakota, Vermont, Wisconsin and Wyoming.

(Scoters or sea coots may also be taken in open coastal waters of Maine and New Hampshire from Sept. 15 to Sept. 3C, and in those of New York, Connecticut, Massachusetts and Rhode Island, Sept. 15-Oct. 15.)

Intermediate Zone, Oct. 15-Dec. 23 — California, Colorado, Connecticut, Idaho, Illinois, Indiana, Kansas, Kentucky, Massachusetts, Missouri, Nebraska, New Jersey, Nevada, New York, Oklahoma, Oregon, Rhode Island, Utah, Washington and West Virginia.

Southern Zone, Nov. 2-Jan. 10 — Alabama, Arkansas, Arizona, Delaware, New Mexico, Florida, Georgia, Louisiana, Maryland, Mississippi, North and South Carolina, Tennessee, Texas and Virginia.

Alaska — Two zones: Sept. 1-Nov. 9 and Sept. 21-Nov. 29. Puerto Rico — Dec. 15-Feb. 12.

Northern New York, Pennsylvania and Wisconsin — Oct. 1-Oct. 15.
Southern New York (except Long Island), West Virginia and Indiana — Oct. 15-Oct. 29.
Long Island of New York, New Jersey and Rhode Island — Nov. 1-Nov. 15.
Maine, New Hampshire, Ohio, and Vermont — Oct. 10-Oct. 24; Massachusetts — Oct. 20-Nov. 3; Arkansas and Okiahoma — Dec. 1-Dec. 15; Louisiana and Mississippi — Dec. 15-Dec. 29: Delaware and Maryland — Nov. 15-Nov. 29.
Michigan (Upper Peninsula) — Oct. 1-Oct. 15; remainder of state Oct. 15-Oct. 29. — Dec. 15-Dec. 29; Delaware and Maryland — Nov. 15-Nov. Michigan (Upper Peninsula) — Oct. 1-Oct. 15; remainder of s Minnesota — Oct. 3-Oct. 17. Missouri — Nov. 10-Nov. 24. Virginia — Nov. 20-Dec. 4; West Virginia — Oct. 17-Oct. 31. Connecticut — Oct. 16-Oct. 30.

RAIL AND GALLINULE

Sept. 1-Nov. 30, except as follows: Alabama — Nov. 20-Jan. 31; Louisiana — Sept. 15-Deo. 15; Maine and Wisconsin — Sept. 25-Dec. 3; Massacbusetts and New York — Oct. 15-Dec. 23; Minnesota — Sept. 16-Nov. 30; Puerto Rico — Dec. 15-Feb. 12. No open season in California, District of Columbia, Hawaii, Idabo, Iowa, Montana. Nevada, Oregon, Washington, Tennessee.

MOURNING DOVE

Alabama, Georgia, Louisiana, Mississippi and South Carolina — Nov. 20-Dec. 19. Arizona, California, Colorado, Kansas, Nevada, New Mexico and Oklahoma — Sept. 1-

Oct. 12, Delaware, Arkansas, Tennessee, Kentucky, Maryland, and Virginia — Sept. 16-Oct. 15; Idaho — Sept. 1-Sept. 10; Illinois and Missouri — Sept. 1-Sept. 30; Minnesota Sept. 16-Sept. 30; Oregon — Sept. 1-Sept. 15; North Carolina — Nov. 25-Dec. 24. Florida — Dec. 1-Dec. 30.

Texas, in Yoakum, Terry, Lynn, Garza, Kent, Stonewall, Haskell, Throckmorton Young, Palo Pinto, Van Zandt, Rains, Red River counties and in Parker, Kaufman, Johnson, Hookins, Franklin and Eliis counties and all counties north thereof — Sept. 1-Oct. 12; remainder of state, Sept. 16-Oct. 27.

WHITE-WINGED DOVE

BAND, TAILED PIGEON

Arizona — Sept. 1-Sept. 15. Texas — Sept. 13-Sept. 19.

Arizona, New Mexico and Washington — Sept. 16-Oct. 15; California — Dec. 1-Dec. 30; Oregon — Sept. 1-Sept. 30.

BAG LIMITS. Ducks — 10 in aggregate of all kinds including in such limit not more than 1 wood duck, or more than 3 singly or in the aggregate of redheads and buffleheads. Possession limit 20 in the aggregate of all kinds, but not more than 1 wood duck, nor more than 6 of either or both of redheads or buffleheads. Geese and brant, 2 in aggregate, but in than 6 of either or both of redheads or buffleheads. Geese and brant, 2 in aggregate, but in addition 4 blue geese may be taken in a day. If blue geese only are taken, the daily bag limit is 6. Possession limit on geese, other than blue geese, 4 a day, but in addition 2 blue geese are allowed, and if only blue geese are taken, the possession limit is 6. In Alexander County, Ill., geese may be taken only between sunrise and 12 o'clock noon. Coot and sora 25, singly or in aggregate, daily and possession. Rall end gallinule 15 in aggregate; 15 possession. Woodcock 4; 8 in possession. Mourning and white-winged doves 10. Bandtailed pigeons 10; possession 10.

RESTRICTIONS. Closed season on jacksnipe, Ross's geese and swans; on snow geese in states bordering the Atlantic Coast, in Idaho, and in Beaverhead, Galiatin and Madison Counties in Montana. Live decoys, batting, and use of livestock as "blinds" prohibited. Migratory waterfowl may be taken with bow and arrow, or with shotgun not larger than 10-gauge, and not capable of holding more than 3 shells. All waterfowl, coot, rails, gallinule woodcock, mourning and white-winged doves and band-tailed pigeons may be taken from one-half hour before sunrise to sunset. Federal duck stamp required of all waterfowl hunters over 16 years. Migratory birds may be retained for 45 days following close of season in state where killed. season in state where killed.

IMPORTANT: LEARN, MEMORIZE, AND OBSERVE DAY TO DAY MILITARY REGULATIONS AT ALL TIMES.

PLANTING TABLE

There is not much to be gained by "rushing the season" with your Spring planting. Hold off planting your tender vegetables and you'll find they'll come just as quickly to maturity—as those planted earlier and retarded by the cold. However, it is well to get your hardier seeds in without delay . . . and spread your plantings through the season as well as you can. Early and late varieties planted at the same time of course give a partial fulfilment of the desired result. There follows a chart you may use as a guide—by correcting it for your locale. (Courtesy U. S. Dept. Agriculture)

Early	Spring	Late Spring	Late Sum- mer or Fall				
4-6 wks. before frost free date	2-4 wks. before frost free date	Frost free date	2-6 wks. after frost free date	-6-8 wks. before first- freeze			
Cabbage plants Lettuce Onions Peas Potatoes Spinach Turnips	Beets Carrots Swiss chard Lettuce Mustard Peas Parsnips Radishes	Beans Beets Sweet corn Squash Tomato plants	Beans, snap Beets Sweet corn	Beets Collards Kale Mustard Spinach Turnips			

AT WHAT AGE WILL YOU BE "OLD"?

Such a question will probably never be answered satisfactorily. Man is as old as he feels—and, to all intents and purposes, as God's child, ageless. With this premise in mind, you may be interested in examining the following table (derived from the February, 1942 issue of The Scientific Monthly) giving the average ages at which leaders have succeeded to their positions.

U. S. Successful Presidential, 55-59. Candidates
U. S. Unsuccessful Presidential, 55-59. Candidates
Members English Cabinet, 55-59
Presidents of Republic other than U.S.A., 55-59
Hired Rulers of France, 40-79
Presidents in Office, 55-59
Chief and Prime Ministers of England, 55-59
State Governors of U. S., 45-49
Governors of American Colonies, 65-69
U. S. Ambassadors, 55-59
Military Commanders (not American), 40-44
Naval Commanders (not American), 55-59
Appointed Justices Supreme Court, 55-59
Justices serving in Supreme Court, 65-69
U. S. Cabinet Members, 50-54
Presidents American Bar Association, 50-54
Presidents American Medical Association, 60-64
Founders of Religious Sects, 35-39
Popes, 80-84
Presidents of Other Religious Organizations, 80-84
Presidents of American Colleges & Universities Inaug., 40-44
Presidents of American Colleges & Universities Serving, 50-54
Commercial and Industrial Leaders, 55-59

By and large then if any conclusion may be drawn from the above man's finest flower of ability appears in the last half of his fiftics.

CHARADES

Who first my last till they the bounds exceed, Of my whole soon will surely stand in need.

My first's a term in golfing, though in that I'm not much

wersed;
My first is in my second, when my second's in my first.
And when my whole is in my first, my first is in my whole,
And when my first is in my last, we quaff its flowing bowl.

My first the dark Senora Wields with uncommon grace, And blushing hides behind me, The beauty of her face.

My second is a schoolboy, The first in every game; And yet,—you'll scarce believe me,-'Tis nothing but a name.

My whole is but a fancy, A vision or a dream, And very seldom—if at all— Has my whole form been seen.

My first is a country in Asia. Change my head, and I am a small country of Africa. Behead, and I am an ancient name of a part of Europe. "Put a head on me" and drop the last two letters, and I become a celebrated river. and I become a celebrated river. Change the last letter and I am a country in Asia.

I am a word of three syllables. My first and second form half the name of one of the most beautiful Oriental languages; my third is oriental languages; my third is eaten by some nations, and de-tested by others; and my whole is the name of a mountain in Turkey, celebrated in Scripture history by an event that oc-curred 1656 years after the crea-tion of the world tion of the world.

My first is in battle, but not in fight: My seconight; second is in eve, but not in My third is in hearing, but not in sight;

My fourth is in darkness, but not in light;

My fifth is in wrong, and also in

sixth is in red, but not in Mywhite;

seventh is in flee, but not in My flight My eighth is in read, and also in

write My ninth is in danger, but not

in fright. My whole is a beautiful tree.

My first is in part of your face; my second you feel when you are cold; my third is a letter; and my whole is an animal.

8

My first is refreshing; oh! many it's fed My

next is a prominent part of the head; My third lends to beauty its

power to please; My fourth is the very quintes-

sence of ease; My fifth is the head of all species of fun;

My whole is a criminal good people shun.

My first has a large throat, and sometimes swallows, Though never in the winter, I believe

And sometimes it gets choked, and then it follows That only active remedies re-

lieve.

My next you have when anything is broken.

Nor is it often then a welcome sight;

Though sometimes you esteem

it as a token, And give or take it with a small delight.

My whole when glowing from a light beneath it

Scems radiant with a warmth it cannot give, And helps to emphasize a pleas-

ant welcome In homes where open-hearted

people live.

The answers to these charades will be found on page 78.

OLD FASHIONED PUZZLES

1. A Plum Pudding*

Our Christmas would certainly be incomplete

Without a plum pudding, rich, juicy and sweet;

The recipe you will demand, I dare say-

I'll give it at once in a fanciful way:

(1) Take a thousand and one in proportions to suit

And sprinkle it carefully over the fruit;

(2) Now a daisy or rose, and (3) one hundred with love,

(4) The east and the west winds in conflict above;

(5) A Seneca chief taking supper at e'en,

(6) Two tools and some ice, with a small pea between;

(7) And now from Missouri get two pretty girls

Bright, sparkling and lively, blue eyes and soft curls;

(8) A frank kind of fruit with the sound of a bell,

And all these ingredients together mix well;

(9) Now please add two verbs of an opposite meaning,

(10) What the writer of this did at supper this evening;

And milk, eggs and raisins stir well, and I ween,

You'll have a plum pudding that's fit for a queen.

Aunt Sue

2. How Much Is a Billion?

If you have a billion dollars in five dollar gold pieces and if you're still interested in how many dollars a billion dollars is, place one coin on the ground and pile up as many of its brothers as will reach 20 fect in height; then place numbers of similar coins in close contact, forming a straight line, and making a wall 20 feet high. Imagine two such walls rising parallel to each other and forming, as it were, a long street. It would be necessary to keep on extending these walls for 2.386½ miles till you have used up your billion coins. This will be fun—and now can you tell us (or can you?) if you place the coins singly on the ground forming one continuous

line, and use them all up so doing, how many times will they girdle the earth? You'd be surprised. If you have to halve or quarter that last coin, just send the left overs to the Old Farmer, and thank you very much.

3. Do You Know Your Presidents?

(1) Who was the only President to deliver his inauguration address extempore?

(2) Who was the first President to make any political speech in a foreign tongue? (He spoke in German.)

(3) What President was the last surviving signer of the Constitution of the United States?

(4) What President had been known as the "first scientific farmer" of his day?

(5) What month has proven most fatal to our presidents?

4

One hundred and one by fifty divide,

And then if a cipher be rightly applied,

And your computation agree with mine,

The answer will be one taken from nine.

5. Reversals

1. Take a word meaning to separate, reverse it, and find a snare for vermin. 2. Belonging to animals of a certain kind; reversed to barter. 3. A pest to society; reversed a kind of bird. 4. A nocturnal animal; reversed, an appendage to a cap. 5. A modern means of divination; reversed, a mineral. 6. To treat with contempt; reversed, small sweetcakes. 7. An ancient poet or minstrel; reversed, a color. 8. Departed in haste; reversed, a kind of ware.

6. Drop-Letter Puzzle

Every other letter is omitted. N-v-r-o-d-m-w-a-y-u-o-u-r-t-n. (A bit of proverbial advice worth heeding.)

For answers to puzzles turn to page 78.

POETRY, ANECDOTES AND PLEASANTRIES

BEWARE

My boy, beware the baby stare Because, if it's a bluff, She knows too much-and if it's not

She doesn't know enough.

LONGEST NAME?

Dr. George Kempner Young John Shields Genius Gray Mat-Kempner Young thew Wilson Pilson Hender-son Jefferson Davis Confederate States Ambrose Heifner was born Feb. 12, 1862 and died March 29, 1906.

THE SAGE SAYS:

He knows a man who wouldn't tell a lie for nine pence, but he might tell eight lies for a dollar.

A gentleman farmer is the feller who makes one blade of grass grow where two grew before.

A pessimist is a man who,

when he has a choice of two evils, takes 'em both The only di

The only difference between firmness and obstinacy is a mat-

ter of sex.

The easiest man in the world to bunco is the man who has had just enough success to give him eonfidence in his own judgment.

PUNCTUALITY

We look at him with silent awe, The man who's never late. His record is without a flaw, The man who's never late. He's always where he said he'd

be,

Right on the dot you always see (Proud of his punctualitee)
The man who's never late.

And yet he loses lots of time, The man who's never late, Although his promptness is sublime,

The man who's never late. In fact his life is full of eare, For when he turns up anywhere, The man who said he'd meet him there

Is usually late.

STRAIGHT LACED

An old Yankee was smoking in the waiting room of a railroad station when a porter said to him, "Don't you see that notice on the wall-'No smeking allowed'?"

"Sure," said the old fellow, "but how can I keep all your rules? There's another on the wall that says 'Wear Felicia Corsets'."

Neal O'Hara in Boston Traveler

LATER NEWS

"Your wife," said the reporter, "and the man with whom she eloped have been found in New York. They were on their way to California, but they lost their money and were stranded there." "Well?" said the man, quite

unmoved.

"Why-er," stammered the re-preter, "we thought you might porter,

want the news, and—"
"That is not the news. The news is that I have just sent them enough money to see them through."

SHREDS AND PATCHES

Though life is made up of mere bubbles,

'Tis better than many aver, For while we've a whole lot of troubles,

The most of them never occur.

If you would pen some line that

Would always deem as clever, Oh, mix your ink with so much think

That it must last forever.

Don't think your lot the worst beeause

Some griefs your joy assail; There aren't so very many saws That never strike a nail.

Nixon Waterman from In Merry Mood

TO DIG A WELL

Winant returned some Silas summers back from a vacation on the inverted V cow nursery

near Saladas. Wyoming. "Them Westerners." "Them Westerners, aims, "do have mighty knotty claims, and cantankerous problems. Mike Donovan and his Donovan and his neighbors had just completed digging a well when I arrived. Jim Hollander, the postmaster told me about it in between times of us sitting in front

the P. O. with old man Kennedy."

"'Mike's well is down a hundred and two feet,' Hollander said. 'He's got no sign of water yet and has quit digging!'
"Trouble likely is,' Kennedy suggested, 'he's got the opening at the wrong end of the well

at the wrong end of the well, likely up at the top. Down at the bottom, where there should be a hole for the water to come in, he's likely got nothing but dirt'."

Then Silas, seeing how serious set their faces were, spoke up, "What he should do is turn the well upside down; that'd give him a hole at the bottom where the water would come ln."

"No," Hollander insisted, "then he'd layer solid dirt on the new terms."

he'd have solid dirt on top and

how'd he get the water out?"

Kennedy wiped his hand along his overalls. "You got to rememhis overalis. "You got to remember that a well is nothing more nor less than a hole in the ground. If Mike turned it upside down, he'd have a hole sticking up in the air for a hundred and two feet. How could you get any water into a thing like that?"

Silas was silent half a minute. "You're just considering the met."

"You're just considering the mat-ter from one point of view," he suggested. "If Mike took hold of his well at the bottom instead of the top and turned it upside down, then he'd have a hole down upside two hundred and four feet. He'd likely get plenty of water at that depth."
"Yeah," Hollander conceded,

"but then he'd have a hundred and two feet of dirt above the top of his well and he'd have to dig through that to get the water out."

"The thing to do," Kennedy cut in, "is to take hold of the well in the middle and turn it so there'll be a hole at the bottom-but I guess that brings us back where we started and we

still ain't got any water."
Silas says they never did get the thing straightened out—and Mike's well was dry when he left.

Vernon A. Twice from Yankee

MIGHT BE

Little Roger came home from Sunday school with a mite box. "Why do they call it a mite box, mother?" he asked. "Because," chirped in his brother, "you might put something in it and you might put."

thing in it and you might not."

CONFESSION OF A PROGNOSTICATOR

As many readers of the almanac have followed the weather

prognostications of Mr. Weatherwise . . . and none has ever been able to squeeze out of him his methods, it may be of interest to record here a note we recently ran across among the buried papers of one Abraham Weather-wise written in the year of our Lord, 1783, in which Abraham

discloses all.
"When I arrived at the years of maturity, I endeavoured to cultivate every science that could render me beneficial to my neighbours. But what principally attracted my attention was the study of Astronomy... By my observation of the Planets I discovered that calamity or misery seldom afflicts any people, but Saturn has a strong hand in it: Peace, prosperity and plenty proceed in a natural way from the Influence of Jupiter: Wars and rumors of wars from Mars and

the Sun. . . &c.

Having thus devoted my time to the study of the heavenly bodies, I was sollcitous to communicate my observations to my neighbours, who, for a number of years have acknowledged them to be accurate. I likewise found that I could be very serviceable to them by my knowledge of Astronomy, In discovering of Astronomy, In discovering changes of weather; and at length I became such an adept at that science, that before they began to plant, sow, mow, reap, or undertake a journey, they came or intertake a journey, they came to consult me about the weather, which so seldom failed of happening according to my prognostication, that they often exclaimed, that I was very wise with respect to the weather. And it happened at a large and cariely it happened at a large and social meeting, they honoured mc with the title of Mr. Weatherwise, which I continue to hold to this day.

Thus readers, for to give you still content,

I every year on pleasing am bent: And this I'll boast (if you will justify)

In my predictions there's not a lye!

where is found that bold And Astrologer,

That of his Writings can this Truth aver?"

L. K. Williamson

EDITOR'S NOTE: Mr. Weatherwise, of the 1944 generation—after seeing the above, commented it would be of no value to the enemy, he guessed, and has not mentioned it

THE AMAZING DISCOVERY OF NOAH'S ARK

(An enterprising editor and publisher, H. L. Harvey, Fair Grove, Mo., has presented accounts this past year of three different discoveries of the Ark built by Noah at the command of God as given in Genesis 6, 7, and 8. The following is a summary of his accounts.)

According to a Chicago Tribune story under dateline of August 13, 1883, certain Turkish commissioners investigating the question of avalanches on Mt. Ararat suddenly "came upon a gigantic structure of very dark wood protruding from a glacier.... An Englishman among them saw it was made of ancient gopher wood... which grows only on the plains of the Euphrates... The admiralty requirement for the conveyance of forces had been carried out, and the interior was divided into partitions fifteen feet high. Into three of these only could they get and how far the Ark extended they could not tell."

In the book "Yesterdays in Persia and Kurdistan" by the Rev. Frederick G. Coan, published at Claremont, California, in 1939, Chapter 16 reveals that a certain Indian "Archdeacon Nouri"... "said he had made three attempts to scale Mt. Ararat before he succeeded. At last he was rewarded and he stood overwhelmed and awed as he saw the old ark wedged in the rocks and half filled with snow and ice. He got inside where careful measurements coincided exactly with the account given in the sixth chapter of Genesis." The Rev. Coan did apparently check up on this traveler's life story... and found same to be in every respect perfectly reliable.

Vladimar Roskovitsky, a white Russian refugee, now an American citizen engaged in selling Bibles tells of engaging in an aerial trip for the former Russian Government during which he first discovered the Ark on Mt. Ararat . . . and later his Captain confirmed his discovery. The Czar thereupon sent one hundred men to scale the mountain . . . complete measurements were taken and plans drawn of it as well as many photographs taken "all of which were sent to the Czar of Russia."

To quote Roskovitsky: "The Ark was found to contain hundreds of small rooms and some rooms very large with high ceilings. The unusually large rooms had a fence of great timbers across them, some of which were two feet thick . . . as if designed to hold beasts ten times as large as elephants. Other rooms were also lined with tiers of cages somewhat like one sees today at a poultry show, only instead of chicken wire they had rows of tiny iron bars along the front."

"... The expedition found ou the peak of the mountain above the ship, the burned remains of timbers ... used to build a tiny one room shrine inside of which was a rough stone hearth like the altars the Hebrews use for sacrifices ... The roof was completely burned off.

"A few days after this expedition sent its report to the Czar, the government was overthrown . . . We white Russians of the air fleet escaped through Armenia, and four of us came to America."

It may be said in this that not any of the reporters of the accounts given by the discoverers of the Ark have committed themselves as to the veracity of these discoveries. As one has put it, however... "after the war there will be an abundance of airplanes available for constructive purposes. One of these could locate the Ark, if it is there... and the facts proven for the world. The Bible will be no more true than it is now... but many scoffers will be put to silence."

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Genuine Brick Oven

BAKED BEANS

RECIPES FOR TODAY'S RATIONS

By LOUISA PRYOR SKILTON

BREADS

Raisin Tea Loaf

2 cups all-purpose flour sirup sirup teaspoons baking powed der teaspoon salt to be sold
Sift together flour, baking powder and salt. Cream shortening and add corn sirup; stir in about $\frac{1}{2}$ cup of flour mixture, then egg, and beat well. Add remainder of flour mixture alternately with milk. Add raisins. Place in loaf pan $(13 \times 4\frac{1}{2} \times 2\frac{1}{2})$ and bake in moderate oven (350° F.) for 1 hour.

Molasses Corn Cake

1 cup milk
1 cup cornmeal
1 egg, beaten
2 cup molasses
3 teaspoons
baking

3 tablespoons powder shortening, 1 teaspoon salt melted

Scald milk and pour it over cornmeal, let stand 10 minutes. Stir in egg, molasses and shortening, then flour sifted with baking powder and salt. Place in shallow pan (7½ x 11) and bake in moderately hot oven (375° F.) about 25 minutes.

Honey Filled Blscuits

1 egg, slightly beaten 4 tablespoons 2 cups all-purpose flour 3 teaspoons baking powder 4 tablespoons shortening cup milk (or less)

Sift together flour, baking powder and salt; cut in shortening and add egg and milk to make a soft dough. Turn dough onto lightly-floured board and knead just enough to make surface smooth. Roll into rectangle, ½-inch thick. Cover surface with Honey Spread and roll like a jelly roll. With sharp knife cut slices 1 iuch thick from end of roll; place in greased muffin tins and bake in hot oven (400° F.) 20 minutes.

Honey Spread

1 cup butter or margarine 2 cup honey 2 cup honey 2 cup chopped raisins 2 cup chopped walnuts

Blend ingredients thoroughly.

Chicken Short Cake

4 large squares corn bread pimento tablespoons butter or, margarine tablespoons flour tablespoons cooked chicken

2 cups milk Salt and paprika

Split corn bread and toast on one side, Make a sauce from butter or margarine, flour and milk, season with salt and paprika. Add pimento, green pepper and chicken. Heat thoroughly and serve between two halves of corn bread and on top of squares. Serves 4.

Green Pea Timbales

2½ cups green peas, cooked peas, cooked peas, beaten teaspoon gratedonion cup to p milk

2 tablespoons butter or margarine, melted Salt and paprika

Press peas through sieve, add eggs, onion, milk, butter or margarine. Season with salt and paprika. Place mixture in individual greased molds, set in a pan of hot water and bake in moderate oven (350° F.) about 25 minutes. Unmold and serve with tomato sauce. Serves 4 or 5.

Creamed Eggs and Asparagus on Biscuit Ring

4 tablespoons butter or margarine 4 tablespoons flour 2 cups milk 6 eggs, hard cooked 1 biscuit ring 1 large bunch asparagus, cooked Salt

Melt butter or margarine, stir in flour and salt; add milk gradually. When mixture thickens place over hot water. Add eggs, sliced. Use to fill center of biscuit ring. Arrange asparagus around outside. Serves 4.

Spiced Boiled Tongue with Vegetables

1 beef tongue, slightly corned 6 cloves

2 tablespoons lemon juice Hot water to cover

2 bay leaves

Scrub tongue, place in kettle with cold water to cover, bring to boiling point slowly; discard water. Add cloves, bay leaves,

lemon juice and hot water. Bring to boiling point, reduce heat and simmer until tender (this requires 3 to 4 hours more). Allow to cool in cooking water, then remove skin and trim root end. Serve warm with snowball turnips and steamed spinach.

VEGETABLES

Fresh Limas in Pimento Sauce

2 cups fresh lima beans, shelled 2 tablespoons 1 tablespoon chopped chives 2 canned pi-

butter or margarine 2 sprigs parsmentoes, chopped

ley

Cook lima beans until tender. Drain. Mclt butter in saucepan. Add parsley, chives and pimentoes, and cook over low heat until well blended. Add lima beans and cook 5 minutes longer. Serves 4.

Cabbage Relish

2 cups chopped raw cabbage

2 cups vinegar 4 cup brown sugar 1½ teaspoons

1 cup
chopped
cclery
1 cup
chopped

carrets

salt
teaspoon
pepper
cup grated
horse-radish

Prepare vegetables. Combine vinegar, sugar, salt, pepper and horse-radish and cook 5 minutes. Add vegetables and simmer 10 minutes. Seal in sterile jars or cool and use at oncc. Makes 3 half-pint jars.

Cheese Potato Souffle

2 cups hot mashed potatoes teaspoon
pepper
cup grated
American
cheese

3 egg yolks, well-heaten ½ teaspoon salt

3 egg whites. beaten stiff

Combine potatoes with egg yolks, salt and pepper. Add half the cheese. Fold in egg whites. Place in greased casserole. Sprinkle remaining cheese over top. Set casserole in pan of hot water. Bake in moderate oven (375° F.) about 25 minutes. Serves 6.

SALADS

Fresh Spinach and Egg Salad

1 pound raw spinach 1 head lettuce delery

1 medinmsized onion, chopped 6 hard-cooked

Wash spinach and lettuce, remove tough stalks and chop leaves cross-wise. (Roll leaves and snip with scissors if preferred.) Toss in salad bowl with onion and celery. Slice eggs and arrange in ring around edge of bowl. Accompany with Bacon Salad Dressing. Screes 10-12.

Apple Raisin Salad

2 cups shredded cabbage 1 cup diced apple, unCooked
Salad Dressing
Salt and
pepper

d cup scedless raisins

pared

Blend cabbage, apple and raisins. Moisten with Cooked Salad Dressing and season with salt and pepper. Very good with roast pork. Serves 6.

Winter Pears with Orange Dressing

6 Anjou pears Orange 1 Bunch cress Oressing

Select ripe pears. Cut in quarters, remove core and skin. Slice and arrange on nests of cress. Serve with Orange Dressing.

Orange Dressing

3 tablespoons \(\frac{1}{2} \) teaspoon salt \(\frac{1}{2} \) top orange

tablespoon juice

flour 4 tablespoons lemon juice mustard

Combine dry ingredients in top of double boiler, add fruit juices and cook over hot water until mlxture thickens. Chill.

DESSERTS

Apple Peanut Crispie

4 tart apples 2 tablespoons cup chopped sugar peanuts teaspoon

tablespoons cinnamon lemon juice 1 cup honey

Topping

cup butter cup flour or margateaspoon salt rine, melted cup brown 1½ cups corn flakes, sugar crushed

Pare and core apples, slice and place in oven-glass baking dish 6" x 10", add peanuts. Sprinkle with lemon juice, sugar and cin-namon; pour honey over all. Mix topping and spread over top. topping and spread over top. Bake in moderately hot oven

(375° F.) about 45 minutes or until apples are tender. Serve warm with light cream. Serves 4-6.

Fresh Raspberry Sponge with Custard Sauce

1 tablespoon 1 cup confecgelatine tioner's sugar (or more) tablespoons 1 can evapocold water rated milk.

1 cup raspber-ries, crushed chilled

Soften gelatine in cold water; heat over hot water, stirring un-til dissolved. Add to berries swectened with sugar. Chill until slightly thickened. Fold in eyapoed milk whipped stiff. Place individual serving dishes and rated chill. Serve with Custard Sauce. Serves 4 or 5.

CAKE

Angel Delicious

teaspoon cup sugar 13 cups cake salt 3 cup milk, flour scalded

teaspoons baking powder

Mix and sift together 4 times the sugar, flour, baking powder and salt. Add milk and flavorings. Fold in egg white beaten with

teaspoon egg whites beaten stiff lemon exteaspoon tract cream of teaspoon vanilla extartar tract

cream of tartar. Place in ungreased tube pan and bake about slow oven 50 minutes in a (325° F.).

COOKIES

Maple Drop Cookies

tablespoons 24 cups allgrated purpose orange rind flour cup butter teaspoon or margasalt 3 teaspoons rine eggs, beaten baking pow-1 cup maple der sirup

Sift together flour, salt and baking powder. Cream orange rind with butter and add eggs. Add flour mixture alternately with maple sirup. Drop mixture by spoonfuls on greased baking sheet and bake in moderate oven (350° F.) about 10 minutes. Makes 41 dozen cookies.

Peanut Butter Cookies

d cup shorten-1 egg cup milk ing 1 cup all-purcup peanut pose flour butter teaspoon cup brown sugar (half baking powmay be white) der 3 teaspoon salt 1 teaspoon vanilla

Cream shortening, peanut butter, and sugar. Add vanilla and egg and bcat well. Add milk alternately with flour sifted with teching powder and safe. baking powder and salt. Drop from tablespoon onto greased cooky sheet. Bake in moderate oven (375° F.) 12-15 minutes. Makes 2 dozen.

BEVERAGES

Molasses Milk Shake

1 cup milk 1 tablespoon molasses

Shake together molasses and milk. Serve at once. Serves 1. (Multiply amounts by number to be served.)

Cafe Au Lait

2 cups milk, 2 cups hot coffreshly fee scalded

To serve, pour coffee and milk in equal amounts into heated coffee cups.

FERTILIZE AND BE HEALTHY

That there is a direct relation between health and the soil upon That there is a direct relation between health and the soil upon which we live has long been understood. The lime content of certain parts of Northern Vermont soil, for example, has been a major consideration in raising horses. The same might be said of the bluegrass lands in Kentueky. Dr. Ouida Davis Abbott was recently quoted in the New York State Journal of Medicine as saying that:

"In sections where local cattle rangers were classed as deficient in 'salt lick,' the children had lower hemogoblin values than in sections where classed as healthful..."

"Children with skeletal imperfections came from sections where cattle also had poor bone formation..."

cattle also had poor bone formation . . ."
"When produced on soils elassified as protected, greens contained from two to three times as much iron as when grown on deficient

soils.'

years-especially with our increasing knowledge of vita-Of late mins and their effect on our health-this subject is receiving greater attention. It is said that experiments have been made in the field of beans grown on the one hand, with natural manure—and on the other hand, with commercial fertilizer. Similarly, others have tried other hand, with commercial fertilizer. Similarly, others have tried to determine whether or not there was a difference between the vitamin content of eggs produced by the "factory" hen and that from the old time barnyard variety. It has also been said (though we have yet to see any published proof of same) that these experimenters have learned that people who were made ill by the beans grown with commercial fertilizer—and by the eggs from the forced hens—were not made Ill by the beans from natural manure or by the eggs from barnyard hens. When and if such experiments are a matter of public record and the results substantiate any such differences in health as suggested here, we may find a deep and proferences in health as suggested here, we may find a deep and profound change will take place in our marketing as well as eating preferences. We may find that stores will come to hitching not only a soil content analysis to their vegetable prices—but a fertilizer

a soft content analysis to their vegetable prices—but a fertilizer analysis as well.

For those scoffers who would consign these experiments to the realm of bedtime stories and poppycock, it might be well to examine here the April 1943 issue of The Journal of the American Society of Agronomy in which appear the writings of J. K. Wilson, Professor of Soil Technology. From the results of this man's experiments and study we quote the following:

"Plants such as beans pigwood, and waterweles wise may contain

ents and study we quote the following:

"Plants such as beans, pigweed, and watermelon vine may contain 5000 p.p.m. of nitrate in the sap and the sap may represent 85% of the total weight. Thus, it is evident that this nitrate calculated as NaNo3 would constitute about 3.88% of the dry weight. The data show that beans grown in the greenhouse and vines of the watermelon contained twice this quantity. According to certain investigators this percentage of nitrate should be lethal to animals. Bradicy, et al, say, on the basis of their experiments that it is necessary for a five hundred pound animal to eat only 5½ pounds of hay containing 5% of K N O3 to be fatally poisoned."

On the other hand for those canards who might too soon jump at the conclusion that the common run of commercially fertilized yege-

the conclusion that the common run of commercially fertilized vegetables are to be avoided, Professor Wilson has this to say:
"The nitrate content of such vegetables as beets, broccoli, cabbage, cauliflower, lettnce, etc. suggests that these foods may be toxic at times to humans. Undoubtedly some of the nitrate will be reduced to nitrate in the discretize transfer. be reduced to nitrite in the digestive tract and, as such, may be absorbed into the blood where it may produce notrosohemigoblin. absorbed into the blood where it may produce increase the since more than 50% of the blood must be thus inactivated before toxic conditions are manifest and since humans consume small amounts of such vegetables at any one time it appears unlikely that the nitrate from this source alone will be very often indirectly poisonous to them.

What, we wonder, would be the result of a meeting of the minds of our vitamin experts and our fertilizer authorities on the general subject of how the fertilization of soil might improve our general health and outlook? If the nitrate content of vegetables can be toxic for ns, could we not then fertilize with some mineral suited for the improvement of our well being in the days ahead—with some, let us say, cold prevention kind of mineral, for example? Then, instead of beans with a dash of nitrate as our only choice we could perhaps expect an ample portion of bicarbonate and cod liver thrown in besides. Well, who knows, there may be a future in this farming business

yet!

FORECAST YOUR OWN WEATHER

(Continued from The 1943 Old Farmer's Almanack) with additional apologies to the Censor.

THE VEGETABLE KINGDOM

The common chickweed or stitchwort (Stellaria Media) has a small white flower which, if closed, means rain is close at hand. In dry weather it is regularly open from nine in the morning until noon. So it is with the purple sandwort, and the pimpernel, but don't put too much faith in *Tragopogon pratensis* as this old man always goes te bed at noon - regardless of the weather.

When the African marigold remains closed after eight A.M. or five

P.M., rain may be expected.

Many other flower varieties close their petals as rain or night approaches — to unclose them again after the rain or next morning: germander speedwell, red campion, wood sorrel, Hieraciums, succory, common daisies, winter green, white water lily, etc. If any of the following open later or close earlier than their usual times, watch for rain: Day Lily (opens at 7 A.M., closes at 7 P.M.); Dandelion (opens at 7 A.M., closes at 8 P.M.); Lettuce (opens at 8 A.M., closes at 9 P.M.)

Plenty of berries — or acorns — mean a severe winter. Thin and delicate onion skins — mean a mild winter.

THE ANIMAL KINGDOM

Sheep run to and fro, jump from the ground, fight in their gambols, before a change of weather.

When cattle lie out, or pigs lie down for the night without covering themselves with litter, fine weather will continue.

Asses hanging their ears forward, or rubbing themselves against walls or trees, prognosticate rain. Before rain, dogs are apt to be sleepy and dull and lie all day

before the fire.

Cats, remaining indoors, devoid of vivacity, forecast wet or windy

weather. Frogs croaking more than usual, moles throwing up more soil than usual, toads in great numbers, oxen licking their forefeet - mcan rain.

When rabbits come out to feed early on a summer's eve, it will rain. In winter, it will rain—or snow—during the night. If it's to be a real bad night, they'll be in their burrows before dark. Catfish develop unusually thick belly skins for a hard winter.

THE BIRDS

When swans fly the weather will be rough - usually within 12 hours. Early appearance of woodcocks, snipes, and other birds of passage mean a severe winter.

Owls hooting and sereeching during bad weather foretell fine weather near at hand.

The mistletoe thrush sings particularly long and loud before rain. Fowls rolling themselves more than usual in the sand—feel rain and a cock crowing in the evening or at any unusual hour—has the same feeling.

Songbirds caroling late in the evening mean weather continues fair.

Crows croaking indicate good days.

Swallows flying near the ground, robins coming near the house, sparrows chirping a great deal—mean rain or wind. If the kingfisher disappears, expect fine weather.

INSECTS

Gnats in a column shaped vortex before the setting sun announce it will be fine; up and down, playing in the open air, they presage heat; in the shade, mild showers. If they sting, look for cold weather and much rain.

Garden spiders breaking off their webs and creeping away know

the rain is not going to stop.

(Continued on page 56)

(Continued from page 55)

Spider webs, flying in the autumn, mean fine days ahead. Spiders often will give you a 12-14 day look ahead. Note the terminating filaments of their webs; if unusually short, it will be rainy or windy; if iong, expect serene weather for a couple of weeks. Totally indolent, rain will ensue, activity during rain means it will be over soon. If they alter their webs between 6 and 7 P.M. the night will be serene and clear.

Bees stay at home before a rain. Hornets build low nests before

cold and early winters.

Ants-the finer the day, the busier they are, and brother, you may be certain that when they retire for what seems to you no good reason at all, you'd better do so too—as a shower is just around

the corner.

The leech remains motionless and rolled up in spiral form when it is fair and frosty. Before rain or snow, hewever, he'll creep up to the top of his container, stay a while if it is to be transient, stay a good deal longer if it's to be of long duration. He darts about if wind is to come along to and contained to the container. wind is to come along, too, and gets convulsions if a thunderstorm is in the offing.

MIST

A white mist in the evening over a meadow or river dispersed y the sun next morning means a good day—all day. Five or six fogs in a row—and you'll have rain.

Mist drawing up toward hill tops in the morning—rolling to the top—predicts good weather, but if it hangs on the hills or drags along the woods, it sure is going to rain.

A general mist before the sun rises is a sign of fair weather.

DEW

Plentiful on the grass after a fair day — and t fine. If not, and there is no wind, rain will follow. -and tomorrow will be

SKY COLORS

Red evening portends fair weather - unless spread too far upward from the horizon in which case expect wind or rain or both.

Sea green tinge in rainy weather means more rain - deep blue

calls for showers.

Haziness over the sun or moon — a sun white at setting or going into a bank of clouds—foretells bad weather. A pale dim moon means rain. A red moon means wind, Yellow or gold sun—with purple streaks at sunset—all will be fine.

A red predominant in the rainbow means rain or wind; orange for rain; yellow for dry weather; green for rain; blue for fine weather; purple for wind and rain; and violet for fine weather.

EDITOR'S NOTE: Mr. Weatherwise, from his observations of these things, and others believes the coming winter will certainly be milder than last — and probably than most. (August 1, 1948)

THE MOUNT WASHINGTON OBSERVATORY

The Mount Washington Observatory was founded in 1932 as one of the observing stations to participate in the Second International Polar Year, (an effort by different countries to obtain more data than usual for studies of atmospheric circulation, over a period of 13 months.) The immediate value of the observations for forecasting, however, led to a continuation of the Observatory, with later backing of the U. S. Weather Bureau and the State of New Hampshire, as well as several hundred interested individuals. The Observatory is a scientific corporation with membership at \$1.00 a year. News Bulletins including discussions of the amazing weather on Mount Washington are published usually twice a year. The latest is devoted to a summary of the Observatory work for the first teu years. Anyone interested should communicate with Joseph B. Dodge, Treasurer, Gorham, New Hampshire.

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pounds	Local	miles	miles	miles	miles	mlles	mlles	miles	miles
1	\$0.07	\$0.08	\$0.08	\$0.09	\$0.10	\$0.11	\$0.12	\$0.14	\$0.15
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17	.15	.26	.26	. 41	.66	.96	1.24	1.58	1.91
18	.16	.27 .28	$.27 \\ .28$.43	.70 .73	$\frac{1.02}{1.07}$	1.24 1.31 1.38	1.67 1.76	2.13
19 20	. 16 . 17	.29	.29	.47	.77	1.12	1.45	1.85	2.24
21	. 17	.30	. 30	.49	.80	1.17 1.23	1.52	$\frac{1.94}{2.03}$	2.35
22 23	.18 .18	.32	.32	.51 .53	.84 .87	1.28	1.66	2.12	2.57
23	.19	.34	. 34	. 55	.91	1.33	1.73	2.21	2.68
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32	.23	.43	.43	.71 .73	1.19	1.76	2.29	$\frac{2.93}{3.02}$	3.56
33	. 23	.44	.44 .45	.73 .75	$\frac{1.22}{1.26}$	1.81	2.36	3.11	3.78
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40	.27	. 51	.51	. 87 . 89	1.47 1.50	$\frac{2.18}{2.23}$	2.85	3.74	4.55
41 42	.27 .28	. 52 . 54	.52 .54	. 91	1.54	2.29	2.92 2.99	3.83	4.66
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				ZON	ES				
		1st	2d	3d	4th	5th	6th	7th	8th
Weigh		Up to	50 to	150 to	300 to	600 to	1,000 to	1,400 %0	over
in	Local	50	150	300	600	1,000	1,400 miles	1,800 miles	1800 miles
pound		miles	. miles	miles	miles	miles	3.27	4.19	5.10
46	.30	. 58	. 58	.99	1.68 1.71	$\frac{2.50}{2.55}$	3.34	4.28	5 21
47 48	.30	. 59	.59 .60	1.01 1.03	1.75	2.61	3.41	4.37	5.21 5.32
49	.31	.00	.61	1.05	1.78	2.66	3.48	4.46	5.43
50	.32	.62	.62	1.07	1.82	2.71	3.55	4.55	5.54
51	. 32	.60 .61 .62 .63	.63	1.09	1.85	2.76	3.62	4.64	5.65
52	.33	.65	.63	1.11	1.89	2.82	3.69	4.73	5.76
53	.33	.66	.66	1.13	1.92	2.87	3.76	4.82	$\frac{587}{5.98}$
54	.34	. 67	.67	1.15 1.17	1.96	2.92	3.83 3.90	4.91 5.00	6.09
55 56	.34 .35	.68 .69 .70 .71	.68 .69	1.19	2.03	2.98 3.03	3.97	5.09	8.20
57	.35	70	.70	1.21	2.06	3.08	4.04	5 18	6.31
58	.36	.71	.71	1.23	2.10	3.14	4.11	5 27 5.36	6.42
59	.36 .36 .37	.72	. 72	1.25	2.13	3.19	4.18	5.36	6.53
60	.37	. 73	.73 .74 .76	1.27	2.17	3.24	4.25	5.45	6.64
61	.37	.74	.74	1.29	2.20	3 29	4.32 4.39	5.54 5.63	6.75
62 63	.38	. 76	.76	1.31	2.24 2.27	3.35	4.46	5.72	6.97
64	.39	78	.78	1.00	2.31	3.45	4.53	5 81	7.08
65	.39	.79	. 79	1.35	2.34	3.51	4.60	5.90	7.19
66	.40	.80	.79 .80	1.39	2.38	3.51 3.56	4.67	5.99	7.30
67	.40	.73 .74 .76 .77 .78 .79 .80 .81	.81 .82	1.41	2.41	3.61	4.74	6.08	7.41
68	.41	.82	.82	1.43	2.45	3.67	4.81	6.17	7.52
69	.41	.83	.83	1.45	2.48 2.52	3.72	4.88	6.26	7.63
70	.42	.84	.84	1.47 EXCEP		3.77	4.90	0.33	6.69
	T 0			EACEP	110119				4 3 - 4 -

(a) In the first or second zone, where the distance by the shortest regular practicable mail route is 300 miles or more, the rate is 9 cents for the first pound and 2 cents for each

additional pound.

(b) On parcels collected on rural routes the postage is 2 cents less per parcel than shown in the foregoing table when for local delivery and 3 cents less per parcel when for other than local delivery.

other than local delivery.

(c) Parcels weighing less than 10 pounds measuring over 84 inches, but not more than 100 inches in length and girth combined, are subject to a minimum charge equal to that for a 10-pound parcel for the zone to which addressed.

(d) For special rates on books, and on catalogs and other similar printed advertising matter, consult postmaster,

Limit of size for parcels is 100 inches in length and girth combined. Limit of weight

is 70 pounds in all zones.

Library Books. Books containing no advertising matter other than incidental announcements of books. Catalogs over 8 cunces in weight. Special rates of postage are provided for these items. (Inquire at Post Office.)

SPECIAL HANDLING. (Fourth Class Matter Only)

Parcels of 4th Class Matter endorsed "Special Handling" will be given the most expeditious treatment practicable (but not Special Delivery) upon payment, in addition to regular postage: Up to 2 lbs. 10c; Over 2 to 10 lbs. 15c; Over 10 lbs. 20c.

SPECIAL DELIVERY FEES

First Class 10c

Second, Third or

Fourth Class

	First Class	Fourth Class					
Up to 2 pounds	10c	15c					
Over 2 pounds up to 10 pounds	20c	25c					
Over 10 pounds	250	35e					
The prepayment of the foregoing fee on second, t	third, or fourth class	mail entities it					
to the most expeditious handling and transportation	n practicable, and a	iso entitles it to					
special delivery at the office of address.		9					
To Canada: United States Special Delivery Fees	are applicable on ar	ticles prepaid at					
the letter rate of postage. Newfoundland and La	abrader 20c prepaid	in addition to					
regular postage on letters or articles only prepaid at	the letter rate ar	nd see p. 64.					
	2 2						
REGISTERED M	AIL						
Not to exceed \$5	o exceed \$500	\$0.70					
Not to exceed 50							
Not to exceed 200	o exceed 1000	1 00					
Not to exceed 300	tered mail is subje	ct to surcharges					
Not to exceed 400	certain conditions.	- To be an end of					
Insured Mail (third and fourth classes) Fees for inde	mater limited to						
\$5	54 2150	204					
\$5	54 200	300					
I C.O.D. WIND - Unrevisitered timed and fourth old	same balana han paga	Ass of some places					
bearing first-class postage) Fees for collections and	I indemnity limited	ter of any class					
00	94 ¢1 50	40.4					
1 20	94 900	454					
C.O.D. Mail - Registered (sealed matter of any class	a bearing first-class n	outoro) Consult					
postmaster for fees and limits of indemnity.	o bearing may crass p	ostage). Consuit					
POSTAL MONEY ORDERS							
For Orders For O	rders						
From \$0.01 to \$2.50 6 cents From	200	0.0015 cents					
From \$2.51 to \$5.00 8 cents From		0.0018 cents					
From \$5.01 to \$10.0011 cents From		.0020 cents					
From #10 01 4-		0.0020 cents					
1	\$100.01 \$100						

POSTAL RATES.—FOREIGN

Letters.—For the places in the following list the postal rate is 3 cents each ounce or fraction. For all other foreign destinations, 5 cents first ounce and 3 cents each additional ounce or fraction: Argentina, Bolivia, Brazil, Canada, Chile, Colombia, Costa Rica, Cuba, Dominican Republic, Ecuador, Guatemala, Halti, Honduras (Republic), Labrador, Mexico, Newfoundland, Nicaragua, Panama, Paraguay, Peru, Salvador, El; Spain and possessions; Uruguay, Venezuela.

Letter Packages.—Articles liable to customs duty may be sent at the letter rate to certain foreign countries. (Inquire at main office or classified stations.) The paper form of customs declaration (Form 2976-A), or an involce, must be enclosed in each such package and the green label, Form 2976, must be affixed to the outside of the envelope or wrapper. The customs declaration and green label may

be obtained free at the post office.

Currency, Jewelry, and other precious articles.—Coins, bank notes, paper money, or any values payable to bearer; platinum, gold, or silver, manufactured or unmanufactured; precious stones, jewelry, or other precious articles are prohibited in the unregistered mails. Money in cash, bank notes, or values payable to the bearer, whether sent in the registered or ordinary mails, are prohibited to certain countries, and in some cases may even be confiscated. Patrons should inquire at the main office or classified stations as to the admissibility of such articles in the letter mails to any particular foreign country.

Post Cards.—Single post cards for places enumerated above 2 cents. Single post cards for all other foreign destinations 3 cents. Maxi-

mum size 6x41/4 inches, minimum size 4x21/4 inches.

Printed Matter.—11/2 cents for each two ounces or fraction. Limit of weight: Inquire at Post Office. (Canada, 4 lbs., 6 oz.)

Reduced Postage Rate on Books.—For each pound or fraction—5 cents.

Weight limit: 22 pounds, except in case of single volumes addressed to Cuba, El Salvador, Mexico or Panama, where there is no limit of weight. To Peru the weight limit for books is 11 pounds.

This reduced rate is applicable exclusively to books which do not contain publicity or advertising other than that appearing on the covers or fly-leaves, when addressed to the following countries: Argentina, Bolivia, Brazil, Chile, Colombia, Costa Rica, Cuba, Dominican Republic, Ecnador, El Salvador, Guatemala, Haitl, Rep. of Honduras, Mexico, Nicaragua, Panama, Paraguay, Peru, Uruguay and Venezuela.

Samples of merchandise.—For all foreign destinations, 1½ cents each 2 ounces or fraction, with a minimum charge of 3 cents. Limit of weight: 18 ounces.

Commercial papers.—For all foreign destinations, 1½ cents each 2 ounces or fraction, with a minimum charge of 5 cents. Limit of weight 4 lbs., 6 oz.

Eight-ounce Merchandlse Packages.—Packages of merchandlse weighing 8 ounces or less, for the countries specially named under "Letters" above, 2 cents for each 2 ounces, except that when the contents consist of seeds, scions, plants, cuttings, bulbs, or roots, the rate is 1½ cents for each 2 ounces. (This is not parcel post, must not have customs declarations attached, and must not be sealed except when addressed for delivery in Canada, in which case such packages should be marked "This may be opened for postal inspection if necessary." There is also an exception with respect to sealing in the case of c. o. d. 8-ounce merchandise packages for Mexico, which may be sealed.)

Small Packets.—Three cents for each 2 ounces, with a minimum charge of 15 cents per packet. Limit of weight: 2 pounds 3 ounces. (Inquire at main post office or classified stations for llst of countries which accept small packets.) Small packets must bear the green label. Form 2976. They must also be accompanied by the paper form of customs declaration (Form 2976-A), properly completed by the sender and enclosed in the small packet. It is likewise permissible to enclose in small packets an open invoice reduced to its essential terms. Every small packet must be clearly marked on the wrapper by the sender with the words "small packet."

None of the articles mentioned under the heading "Currency, Jewelry, and other precious articles" above, may be forwarded in small

packets, even though registered.

Mail service to many foreign countries has been suspended greatly curtailed, due to war conditions. In view of frequent changes, inquire at post office before mailing articles addressed for delivery abroad.

Maximum dimensions.—For all foreign destinations on all classes of mail noted above (except Post Cards), 36 inches length, breadth and thickness combined, the length being limited to 24 inches. When sent in the form of a roll the length (the maximum of which is 32 inches) plus twice the diameter is limited to 40 inches.

Registration fee.—For all foreign destinations, 15 cents in addition to postage. When a return receipt is requested at the time of mailing there is an additional charge of 5 cents.

Special-delivery (exprès) service is now in force with the following foreign countries:

Argentina Australia Bahamas Brazil British Guiana British Honduras (Belize only) Canada Chile China Cuba

Dominican Republic Ecuador Egypt Gibraitar Goid Coast Colony Great Britain and Northern Ireland Guatemala Ireiand Kenya and Uganda

Mexico

Newfoundland (including Labrador) Nyasaland Protectorate Palestine Portugai St. Pierre and Miquelon Sweden Switzerland Trans-Jordan Union of South Africa

An article intended for special (exprès) delivery in any of the countries mentioned above (except Canada, where the United States domestic fees apply) must be prepaid 20 cents, in addition to the regular postage, hy United States special-delivery or other stamps, affixed to the cover. There should also be affixed one of the "exprès" labels (Form 2977) or the cover must be marked boldly in red ink "Exprès," directly below but pover on the stamps. In some countries the service directly below but never on the stamps. In some countries the service is limited to certain cities, lists of which appear under the country items in Part II of the Official Postal Guide. In Canada and Newfoundland exprès special-delivery service applies only to letters (or articles prepaid at the letter rate). In the other countries of the above list, the "exprès" feature is applicable to ordinary and registered Postal Union articles (letters, post cards, commercial papers, printed matter, samples, and small packets), hut not to parcel-post packages.

Morocco (Spanish Zone)

INTERNATIONAL PARCEL POST.

All forms of articles and materials may be shipped to certain foreign countries under general license when the value of the individual shipment is \$25.00 or less, except as otherwise provided. The sender must endorse the general license number, consisting of the letter G followed by the number (which may be obtained from the Postmaster) assigned to the country of destination, in a conspicuous place on the address

to the country of destination, in a conspicuous place on the address side of the wrapper. In cases, however, in which individual licenses are required, application should be made to the Office of Export Control, Board of Economic Warfare, 2501 Q Street, N. W., Washington, D. C. No parcel or package of any class of mail addressed for delivery outside the continental United States shall be accepted for mailing if it exceeds 11 pounds in weight, or 18 inches in length, or 42 inches in length and girth combined except as otherwise provided; also not length and girth combined, except as otherwise provided; also, not more than one such parcel or package shall be accepted for mailing in any one week when sent by or on hehalf of the same person or concern to or for the same addressee. In the case, however, of the United Kingdom, not more than one parcel per month may be sent by the same sender to the same addressee, if sent as a bona fide unsolicited gift and may not exceed 5 pounds gross weight, nor contain more than 2 pounds of any one commodity.

Because of the varying rates and conditions, as well as frequent changes, applicable to foreign countries, it is important that a qualified postal employce handle parcel post transactions. Therefore, parcel post packages for foreign destinations must not be posted in a letter box; such packages should be taken to the main post office or to one of the larger classified stations and handed to a postal clerk.

POSTAL MONEY ORDERS.-INTERNATIONAL.

Limit of a Single Order, \$100.

For Orders from— \$0.01 to \$10 From \$10.01 to \$20 10 cents Advancing thus to.......From \$90.01 to \$100.....

Air Mail in the Continental United States is 6 cents for each ounce or fraction thereof. This rate is also applicable to Canada.

The rate to Bahamas, Cuba, Dominican Republic, Haiti, Jamaica, British Virgin Islands, Mexico, Puerto Rico, and Virgin Islands of the United States, is 10 cents for each ½ ounce or fraction thereof.

FOREIGN AIR MAIL POSTAGE RATES

,	Rate per		Rate per
Destination Aden Afghanistan *Alaska Algeria Anglo-Egyptian Sudan Angola (P.W.A.) Argentina Azores Bahamas Bahrein Islands Barbados Belgian Congo Bermuda Bolivia Brazil British Guiana British Virgin Islands Cameroons, Br. & Fr. *Canada Canal Zone Canary Islands Cape Verde Islands Ceylon Chile China (Unoccupled) Colombia Costa Rica Cuba Curacao: Curacao Island, Arub	½ ounce	Destination Iraq Ireland Ivory Coast Jamaica Kenya, Uganda Leeward Islands: Anguilla, Antigua, Bar	% ounce
Aden	.70	Iraq	.70
Afghanistan	.70	Ireland	.30
*Alaska	.06	Ivory Coast	.50
Anglo-Egyntian Sudan	.55 70	Kenya Uganda	.10
Angola (P.W.A.)	.60	Leeward Islands:	.00
Argentina	.40	Anguilla, Antigua, Barl	buda,
Azores	.30	Dominica, Montser Nevis, Redonda, St. K	rat,
Bahamas Bahasin Lalanda	.10	Nevis, Redonda, St. K	itts .15
Rarbados	.10 25	Madagascar	.90 30
Belgian Congo	.60	Madeira	.30
Bermuda	.10	Malta	.70
Bolivia	.35	Martinique	.15
Brazil	.40	Mauritania	.45
British Hondurgs	,50 20	Mexico	.60 10
British Virgin Islands	.10	Morocco	.33
Cameroons, Br. & Fr.	.60	Mozambique (P.E.A.)	.60
*Canada	.06	Newfoundland	.15
Canal Zone	.15	Nicaragua	.12
Canary Islands	.30 55	Niger	.49 50
Cape verde Islands	.59	Nyasaland	.60
Chile	.40	Palestine	.70
China (Unoccupled)	.70	Panama	.15
Colombia	.35	Paraguay	.40
Costa Rica	.15	Peru	,30
Cuba	.10	Portugui Portuguese Cuines	.au 50
Curacao, Island Arub	a.	Portuguese East Africa	.00
Bonaire	.25	(See Mozambique)	
Saba, St. Eustatius,		Puerto Rico	.10
St. Martins	.10	Reunion	.30
Cyprus	45	Rhodesia, No. & So.	40
Lianomey Liominican Republic	.10	Saudi Arabia	.70
Ecuador	.30	Senegal	.45
Egypt	.70	Sierra Leone	.50
El Salvador	.12	Somaliland, Br., Fr. & It	70
Eritrea	.70	Southwest Airica	•00
Walkland Jelande	40	North Africa)	.30
Faroe Islands	.30	Spanish Guinea	.50
French Equatorial Africa	a .60	Surinam	.30
French Guiana	.30	Sweden	.30
French Guinea	.50	Syria & Lebanon	.10 60
French Toguland	.45	Trans-Jordan	.70
Gambia	.50	Trinidad	.15
Gibraltar	.30	Tunisia	.33
Great Britain	.30	Turkey	.70
Guadeloupe	.15	Union of South Africa	.00
Cold Coast Colony	50	Venezuela	.25
Haiti	.10	Virgin Islands, U. S.	.10
Hawaii	.20	Windward Islands:	
Honduras, Republic of	.12	Grenada, Grenadines,	15
Iceland	.30	St. Lucia, St. Vincent	70
India, Br., Fr. & Port.	70	Zanzihar	.60
Tran		Anguina, Antigua, Bar' Nevis, Redonda, St. K Liberia Madagascar Madeira Malta Martinique Mauritania Mauritania Mauritius Mexico Morocco Morocco Morocco Mozambique (P.E.A.) Newfoundland Nicaragua Nigeria Nyasaland Palestine Panama Paraguay Peru Portuguese Guinea Portuguese East Africa (See Mozambique) Puerto Rico Reunion Rhodesia, No. & So. Rio de Oro Saudi Arabia Senegal Sierra Leone Somaliland, Br., Fr. & It Southwest Africa Spain (Spanish Offices in North Africa) Spanish Guinea Surinam Sweden Syria & Lebanon Tanganyika Trans-Jordan Trinidad Turisia Turkey Union of South Africa Uruguay Venezuela Virgin Islands, U. S. Windward Islands: Grenada, Grenadlnes, St. Lucia, St. Vincent Yemen Zanzibar	

* 6 cents per ounce.

JUDGES AND TERMS OF THE UNITED STATES CIRCUIT COURTS OF APPEALS

First Circuit. (Maine, Massachusetts, New Hampshire, Rhode Island, Puerto Rico)

Caivert Magruder, John C. Mahoncy, Peter Woodbury, and (retired) George H. Bingham.

One term annually, at Boston, Massachusetts, commencing on the First Tuesday of October. Stated sessions during each term, commencing on the first Tuesday of each month, except July, August, and September, which may be adjourned to such times and places as the court may designate. Sessions may be convened from time to time, as required in the public interest, at San Juan, Puerto Rico.

SECOND CIRCUIT. (Connecticut, New York, Vermont)

Learned Hand, Thomas W. Swan, Augustus N. Land, Harrie Brigham Chase, Charles E. Clark, Jerome N. Frank, and (retired) Julian W. Mack.

One term annually, at the City of New York, on the first Monday of October, which may be adjourned to such times and places as the court may from time to time designate.

THIRD CIRCUIT. (Delaware, New Jersey, Pennsylvania, Virgin Islands)

John Biggs, Jr., Albert Branson Maris, Charles Alvin Jones, Herbert F. Goodrich, Gerald McLaughlin and (retired) J. Whitaker Thompson, Victor B. Woolley, Joseph Buffington.

One term annually, commencing on the first Monday of October. Stated sessions during each term, commencing on the first and third Monday of each month, except July, August and September. Sessions are held at Philadelphia, Pa., unless otherwise specially ordered by the court.

FOURTH CIRCUIT. (Maryland, North Carolina, South Carolina, West Virginia, Virginia)

John J. Parker, Morris A. Soper, Armistead M. Dobie, and (retired) Elliott Northcott.

Five terms annually, at Richmond, Virginia, commencing on the first Monday of October and April; at Charlotte, N. C. commencing on the first Monday of January; at Asheville, N. C., commencing on the first Monday in June; and at Baltimore, Md., commencing on the first Monday of November. Special terms may be held at any time on order of the court.

FIFTH CIRCUIT. (Alabama, Florida, Georgia, Louisiana, Mississippi, Texas, Canai Zone)

Samuel H. Sibley, Joseph C. Hutcheson, Jr., Edwin R. Holmes, Leon McCord, Curtiss L. Waller.

A session annually at Atlanta, Ga., commencing on the first Monday in October; at Montgomery, Alabama, commencing on the third Monday in October; at Fort Worth, Texas, commencing on the first Monday in November; at New Orleans, La., commencing on the third Monday in November. The session may be adjourned to such other times and piaces as the court may from time to time order and designate.

SIXTH CIRCUIT. (Kentucky, Michigan, Ohio, Tennessee)

Xen Hicks, Charles C. Simons, Fiorence E. Allen, Elwood Hamilton, John D. Martin, Sr., Thomas F. McAllister.

One term annually beginning on the first Monday of October, and adjourned sessions on the first Monday of each alternate month thereafter, except that there are no sessions for the hearing of cases during July, August and September. All sessions at Cincinnati, Ohio, unless otherwise specially ordered by the court.

SEVENTH CIRCUIT. (Illinois, Indiana, Wisconsin)

Evan A. Evans, William M. Sparks, J. Earl Major, Otto Kerner, Sherman Minton.

One term annually, at Chicago, Illinois, from the first Tuesday in October until the first Tuesday of the next October. Unless otherwise specially ordered, the court holds three sessions commencing respectively on the first Tuesday in October and the second Tuesday in October. in January and April.

EIGHTH CIRCUIT. (Arkansas, Iowa, Minnesota, Missouri, Nebraska, North Dakota, South Dakota)

Kimbrough Stone, Archibald K. Gardner, John B. Sanborn, Joseph W. Woodrough, Seth Thomas, Harvey M. Johnsen, Walter G. Riddick, and (retired) Arba S. Van Valkenburgh, Wilbur F. Booth.

General terms at Kansas City, Mo., commencing ou the first Monday of March; at St. Paul, Minnesota, commencing on the first Monday of May and the first Tuesday of September; at Omaha, Nebraska, commencing on the first Monday of January; and at St. Louis, Missouri, commencing on the first Monday of November. Terms may be adjourned to other times and places.

NINTH CIRCUIT. (Arizona, California, Idaho, Montana, Nevada, Oregon, Washington, Alaska, China, Hawail)

Curtls D. Wilbur, Francls A. Garrecht, William Denman, Clifton Mathews, Bert E. Haney, Albert Lee Stephens, William Healy.

One term annually, at Seattle, Washington, commencing on the second Monday of September with a session in September and in March or April; at Portland, Oregon, commencing on the third Monday of September with a session in September and in March or April; at Los Angeles, California, commencing on the fourth Monday of September; and at San Francisco, California, commencing on the first Monday of October.

TENTH CIRCUIT. (Colorado, Kansas, New Mexico, Oklahoma, Utah, Wyoming)

Orie L. Phillips, Sam Gilbert Bratton, Walter A. Huxman, Alfred P. Murrah, and (retired) Robert Lee Williams.

Three terms annually, one each at Denver, Colorado; Wichita, Kansas; and Oklahoma City, Oklahoma, commencing on dates fixed by special order of court. These terms may be adjourned to such times and places as the court may from time to time designate.

UNITED STATES COURT OF APPEALS FOR THE DISTRICT OF COLUMBIA.

Chief Justice: D. Lawrence Groner (of Virginia). Associate Justices: Harold M. Stephens (of Utah), Justin Miller (of California), Fred M. Vlnson (of Kentucky), Henry White Edgerton (of New York), Thurman W. Arnold (of Wyoming) Retired Chief Justice: George E. Martin.

No stated terms. Court holds sessions in Washington, D. C. or in other places designated by the chief judge, and at such times as may be fixed by the chief judge.

List of Judges corrected to August 15, 1943. Note: Data as to terms of the courts revised to July, 1943.

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WHY PAINT PEELS

By GEORGE B. HECKEL

The excerpts which follow are taken from a pamphlet first copyrighted by the author in 1909 and reprinted in many editions since. Single eopies of the booklet are available from the Paint Industry Magazine, Philadelphia, Pa. 30c.

Paint failures on surfaces exposed to the weather are commonly traceable to one of a few preventable causes.

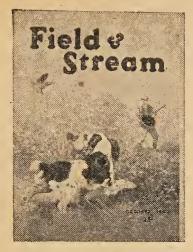
- 1. Dampness in the wood. This means not only wood which is damp to sight or touch but also wood that is imperfectly seasoned; wood that has been recently exposed to rain; wood that has just been saturated with fog or dew or coated with frost. It is generally thought advisable to allow a new building to stand for a month or the properties of the standard points. two unpainted. Painting should be done in dry weather—preferably after a "dry spell". It is perhaps better to paint during the settled weather of the fall than during the unsettled weather of the spring.
- 2. Dampness back of the wood. This is more commonly due to green plaster than to any other cause. A new house should never be painted until the plaster is thoroughly dry—and even after that it is safer to let the house stand a month to allow the moisture to get completely out of the wood.
- 3. Ochre priming coats. The imported ochres of our grandfathers made by nature with a silica (flint) base did make a fairly good priming coat; but modern cheap ochres are nothing but clays stained with iron rust. These make slippery brittle treacherous paints unfit for use as primers.
- 4. Old paint, loosely attached to the wood and not thoroughly cleaned away. Repaint before the old paint begins to go. Paint clings to wood because it penetrates the wood's pores and as long as the penetrating "fingers" of the paint retain their "life" paint will cling. Upon becoming brittle these fingers let go and the paint is the paint the paint that the paint is the paint the pai is then seen to scale or peel. If fresh paint is applied (and remember three thin coats of any paint are always better than two thick coats) before this occurs, the undercoat will cling indefinitely. In case the undercoat has become brittle the only remedy is to scrape, sandpaper, and wire brush away all loose particles before repainting. If it is too bad, the only safe way is to remove the old paint completely either by means of a paint remover or with a painter's torch.
- 5. Fat, resinous wood not properly seasoned or prepared for painting. Rosin in yellow pine keeps paint from taking hold—or makes the paint itself brittle. Knots and streaks will have to be coated with shellac before paint is applied. Much turpentine and little oil should be used in the priming coat and more turpentine than usual in the second coat. A little pine tar in the priming coat is said to be helpful. At best, however, paint will sometimes peel on yellow pine. Cyprus is also troublesome and requires thin coats, plenty of turpentine in the priming coat, and thorough drying of each coat before the next is applied. Toluol is said to be a good thinner.

6. Faulty building construction. The inner side of the clapboarding of modern frame houses is lined with impervious paper, and the space between this and the inner wall comprises a series of unventilated chambers. Moisture collects on the tar paper, and since the space is unventilated, has to escape through the plaster causing the oil paint coating to pecl. The only remedy is to use paint designed for this purpose, or provide a waterproof coating before painting.

Other causes of paint peeling are: application to dirty or greasy surfaces or over varnish, leaking roofs or water pipes, use of adulterated linsced oil or kerosene, non hardened undercoats, or coats

which are too thick.

It will be seen in the circumstances enumerated that paint—any paint—will peel. The better the paint the more likely it is to peel under these conditions. The root of the trouble of course lies in moisture. Moisture under paint must, in escaping, either pass through the paint (which it can't do if the paint is any good) or push the paint off.



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America's Number One Sportsman's Magazine

THE WORLD'S "BEST" COMBAT AEROPLANES — SUMMER 1943 (Name of country precedes name of each plane in ttalics)

Manufacturer	Туре	Total H.P.	Max. Sp'd	Range with Bombs		Lgth.	Ht.	Service Ceiling	
1. Single engine fighters; Some might pick the Hawker Typhcon for the Spitfire in this group									
(U.S.) Republic (Thunder- bolt)	P47	2000	400+	1400+	41	33	13	40,000+	
(Br.) Vickers Super- marine (Spitfire)	IXC	1600	400+	750+	37	31	8	45,000+	
(G.) Focke Wulf (I.) Macchi (Saetta)	190II C202	1650 1200	395 350	900 460	34 35	$\frac{29}{29}$	11	30,000 35,000	
(J.) Mitsubishi (Messer-				200					
schmitt, Zero) or Betty	501	1500	354	600	35	25	9	36,600	
(R.) U.S.S.R.	118	1250	375	650	38	32	10		
2. Single eng	ine grou	nd atta	ck or	torped	o bom	bers			
(U.S.) Grumman (Avenger)	TBF	1700	270	1400	53	37		20,000	
(Br.) Fairey (Battle) (G.) Junkers (Stuka)	87B	1030 1200	270 250	1000 500	54 45	36	16	25,000 28,000	
(I.) Meridionale	RO37 bis		205	1090	36	28	10	25,000	
(J.) Mitsubishi (Mk II) (R.) U.S.S.R.	KB97 R10	800 1600	310 280	1490 1700	39 50	28 37	12	20,000	
3. Two engine ground attac			-					fosquito	
		ne Whi							
(U.S.) Douglas (Boston III) (Br.) Westland	A20	2550	350	-	61	47	18		
(Whirlwind)	D0017F	2240	390	1800	45	32	10	20 500	
(G.) Dornfer (I.) Breda	DO217E BR88	4000 2000	350 350	1800 1450	62 51	56 38		22,500 28,500	
(J.) Kawasaki (R.) U.S.S.R.	S-01 I-21	2400 2600	365 400+	1500	53 	40	10	35,000	
4. Two engine long range b		North	Ameri) cou	ld be for	
(U.S.) Consolidated (Catalina) (Br.) Vickers (Welling-	Boat	2400	130	3000	104	65	19	25,700	
ton)	III	2740	265	2000	86	63	17	26,000	
(G.) Heinkei (I.) Caproni	HE177 405	4600 1660	280 260	3500 1550	103	67	18	24,600	
(J.) Nakajima (Akatsuki)		1500	205	3000 ?	85	48			
(IIII.	5. T	hree e		1000.7		1 20	1		
(G.) Junkers	52/3M K		159	1000	96	62	15		
(I.) Savola Machetti (J.) Kawanishi	SM 84 H90-2	2475	295 135	4960 1600	101	72	_		
						·	rato	e (B24E)	
6. Four engine strategic bombers: Might try Consolidated's Liberator (B24E) here for the Fortress (Range 2600)									
(U.S.) Boeing (Flying Fortress)	B17F	5000	300	2000	104	73	16	40,000	
(Br.) Roe (Lancaster) (G.) Focke Wuif	V	5600	300	2000	102	69	20	30,000	
(Condor)	200B	4000	280	1500	108	78	20	28,000	
(I.) Cant Z (J.) Aichi	511 Mc98	1080	261 233	2000 2200	131 72	93	36 12	21,650	
(R.) U.S.S.R.	ТВ6	14200	310	2500	<u> </u>	<u> </u>	-		
7. Six engine: U. S. types here, and larger, restricted									
(F.) Latecoere (G.) Blohm Voss	Boat 631	9600	220	3720+ 4000	188	112			
(R. U.S.S.R.	L760	6600	200	1900	212	112	1-		

The Gas Behind the Plane!

Back of American superiority in the air is the gas behind the plane. Because we have 100 octane aviation fuel, we build fighters and bombers that are not only faster and better than those of the enemy... but safer!

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PRINCIPAL HOLIDAYS, ETC. IN 1944

America has no nationwide holidays. Each state determines its own. In the table that follows (*) indicates these quite generally observed by all states; (**) indicates those for only certain states; and (***) indicates days usually observed in some localities though probably not observed as holidays. Only continental United States is covered here. The President has asked that no holidays be observed by war workers except Christmas.

Jan. 1 (*)

Jan. 8 (**) Battle of New Orleans

Jan. 19 (**) Robert E. Lee's Birthday

Feb. 12 (**) Abraham Lineoln's Blrthday

Feb. 14 (**) Admission Day (Arizona)

Feb. 14 (***) Valentine's Day

Feb. 15 (***) Susan B. Anthony Day

Feb. 22 (*) George Washington's Birthday

Feb. 22 (**) Mardi Gras

Mar. 1 (**) State Day (Nebraska)

Mar. 2 (**) Texas Independence Day

Mar. 15 (**) Jaekson Day (Tennessee)

Mar. 17 (**) St. Patrick's or Evacuation Day

Mar. 25 (**) Maryland Day

Apr. 1 (**) State Election (Miehigan)

Apr. 2 (**) Arbor Day (Arizona)

Apr. 6 (**) Army Day

Apr. 7 (**) Good Friday (Conn., Del., Fla., La., Md., Minn., N. J., Penn. & Tenn.)

Apr. 10 (**) Easter Monday (N. Car.)

Apr. 12 (**) Halifax Day (N. Car.)

Apr. 13 (**) Jefferson Day (Mo., Okla., Va.)

Apr. 14 (***) Pan American Day

Apr. 19 (**) Patriot's Day (Me., Mass.)

Apr. 21 (**) San Jacinto Day

Apr. 22 (**) Arbor Day (Neb.)

Apr. 20 or 27 (**) Fast Day

Apr. 26 (**) Memorial Day (Fla., Ga., Miss.)

May 1 (***) National Maritime

May 4 (**) R. I. Independence Day

May 10 (**) Memorial Day (N. C. & S. C.)

May 14 (***) Mother's Day

May 20 (**) Meeklenburg Day (N. C.)

May 30 (*) Decoration or Memorial Day

June 3 (**) Jefferson Davis Day (Ala., Ark., Fla., Ga., La., Miss., S. C., Tenn., Tex. & Va.)

June 14 (**) Flag Day (Ia., Mo. & Pa.)

June 17 (**) Bunker Hill Day (Suffolk County, Mass.)

June 15 (**) Pioneer Day (Idaho)

June 18 (***) Father's Day

July 4 (*) Independence Day

July 13 (**) Forrest's Day (Tenn.)

July 24 (**) Pioneer Day (Utah)

Aug. 1 (**) Colorado Day

Aug. 16 (**) Bennington, Vt. Battie Day

Aug. 19 (***) National Aviation Day

Aug. 30 (**) Huey Long Day

Sept. 4 (*) Labor Day

Sept. 9 (**) Admission Day (Cal.)

Sept. 12 (**) Defender's Day (Md.)

Sept. 17 (***) Constitution Day

Sept. 22 (***) Am. Indian Day

Oct. 12 (*) Columbus Day

Oct. 27 (***) Navy Day

Oct. 31 (**) Nevada Day

Nov. 1 (**) All Saints' Day (La.)

Nov. 7 (*) Election Day

Nov. 11 (**) Armistice Day

Nov. 23 (**) Repudiation Day

Nov. 30 (*) Thanksgiving

Dec. 21 (***) Forefather's Day

Dec. 25 (*) Christmas Day

FARM POPULATION MOVEMENT, FARM VAL-UATIONS, TAX LEVIES, ETC., 1932 TO DATE

		pulation ment ¹	Est. total value,	Tax levies per acre on farm real estate									
REGION and YEAR	Farm to city Thou-sands	City to farm Thou- sands	farm land & bldgs. millions of dollars	1909–13 Ave. Dol.	Amount Dollars	Index Nos. 1909-13 = 100 Percent							
New England:				.37									
1932 1933 1934 1935 1936 1937 1938 1939 1940 1941 1942	3 8 1 1 10 22	13 2 11 14 12	918 862 878 901 872 848 807 768 741 745		1.02 .97 1.02 1.09 1.10 1.12 1.14 1.17 1.16	275 259 273 292 296 300 306 314 311 311							
Middle Atlantic		-		.46									
1932 1933 1934 1935 1936 1937 1938 1939 1940 1941	12 9 35 23 6 8 29 56 70	45	2,497 2,148 2,124 2,141 2,168 2,146 2,128 2,067 2,039 2,052 2,133	.40	1.15 1.04 1.01 1.02 1.04 1.07 1.09 1.12 1.11	249 225 218 220 225 232 235 241 240 241							
East North Central:				43_									
1932 1933 1934 1935 1936 1937 1938 1939 1940 1941 1942	69 81 84 84 76 33 50 83 178 207	135	7,149 6,054 6,361 6,597 6,921 7,320 7,368 7,284 7,334 7,464 8,346		.91 .72 .66 .69 .70 .71 .73 .75 .76 .77	212 168 154 160 162 166 170 175 177 179							
West North Central:				.20									
1932 1933 1934 1935 1936 1937 1938 1939 1940 1941 1942	68 99 139 163 173 97 83 98 199 219	19	11,370 8,943 9,298 9,385 9,622 9,597 9,356 9,030 8,796 8,776 9,327	10	.47 .41 .39 .41 .42 .43 .43 .44 .42 .42	235 205 198 207 210 217 217 220 210 212							
South Atlantic:		44	2.059	.12	30	315							
1932 1933 1934 1935 1936 1937 1938 1939 1940 1941	105 69 68 124 65 97 111 128 243 305	44	2,958 2,470 2,650 2,792 2,919 3,107 3,164 3,143 3,160 3,241 3,438		.38 .30 .29 .29 .30 .28 .28 .29	315 250 241 237 238 250 234 236 244 245							
. 1312	1 300	1	0,100			,							

the same of the sa											
	Farm Po	pulation ment ¹	Est. total	Tax levies per acre on farm real estate							
REGION			farm								
and	~		land &			Index					
	Farm to	City to	bldgs.	1909-13	4	Nos.					
YEAR	city	farm	millions	Ave.	Amount	1909-13					
,	Thou-	Thou-	of dollars	Dol.	Dollars	= 100					
	sands	sands	oj dollar s			Percent					
East South Central:				.13							
1932		26	2,058		.38	298					
1933	76		1,691		.37	286					
1934	37		1,787		.34	'266					
1935	118		1,915		.35	272					
1936	87		1,990		. 36	281 283					
1937	80		2,107		.37	251					
1938	57 126		2,228 2,264		.32	252					
1939	137		2,325		.33	257					
1941	283		2,396		.34	261					
1942	308		2,626								
West South Central:				.09							
		30	4,280		.23	242					
1932 1933	96	30	3,618		.21	219					
1934	66	0	3,886		.20	209					
1935	141		4,030		.19	198					
1936	169		4,143		.19	198					
1937	122		4,184		.18	189					
1938	123		4,296		.18	189					
1939	117		4,193		.18	191					
1940	142 261		4,232 4,262		.18	186 188					
1941 1942	354		4,552		.10	100					
Mountain:	- 001		1.002	.08							
	10		0.000		1.0	901					
1932	16 29		2,029 1,698		.16 .15	201 183					
1933 1934	$\frac{29}{22}$		1,098		.13	173					
1935	40		1,772		.13	165					
1936	38		1,824		13	154					
1937	28		1,854		.13	155					
1938	14		1,820		.12	1.51					
1939	17		1,794		.13	157					
1940	32 80		1,780 1,821		.12	152 149					
1941	72		1,968		.12						
Pacific:	- 12	******	1,000	.29							
			0.080		70	0.11					
1932	29	29	3,978 3,240		.70 .54	241 186					
1933	29		3,221		.52	178 -					
1935	9		3,325		.49	171					
1936	i		3,380		.50	171					
1937		10	3,456		.57	196					
1938	9		3,390		.55	191					
1939	28	9	3,277 3,237		.57	195 196					
1940 1941	47		3,237		.57	186					
1942	70		3,461			100					
United States:	•			.21							
1932		325	37,236		.46	220					
1933	482	323	30,724		.39	188					
1934	415		31,933		.37	178					
1935	642		32,859		.37	180					
1936	690		33,839		.38	181					
1937	529		34,621		.39	186					
1938	420		34,557		.38	183					
1939	491 681		33,820 33,642		.39	186					
1941	1,357		34,026		.38 .38	183 183					
1942	1,627		36,611								

Division of Statistical and Historical Research, Bureau of Agricultural Economics, June 12, 1943. Note that some of the figures in the 1943 OFA table have been revised,

1 Includes persons who entered the armed forces.

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Admiral William D. Leahy, of Iowa, Chief of Staff to the Commander in Chief of the United States Army and Navy.

General George C. Marshall, of Pennsylvania, Chief of Staff, United States Army.

Admiral Ernest J. Klnz, of Ohio, Commander in Chief, United States Fleet, and Chief of Naval Operations.

General Henry H. Arnold, of Pennsylvania, Commanding General, Army Air Forces.

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James L. Fly, of Texas, Cnairman, Board of War Communications.
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William H. Davis, of Maine, Chairman, National War Labor Board.
Leo T. Crowley, of Wisconsin, Custodian, Office of Allen Property Custodian.
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Joseph B. Eastman, of New York, Director, Office of Defense Transportation. Leo T. Crowley, of Wisconsin, Director, Office of Economic Warfare. Edward R. Stettinius, Jr., of Illinois, Lend Lease Administrator, Office of Lend Lease

Administration.

Dr. Vannevar Bush, of Massachusetts, Director, Office of Scientific Research and Development. es F. Byrnes, of South Carolina, Director of War Mobilization, Office of War

James F. Byrnes, Mobilization.

Mobilization.

Elmer Davis, of Indiana, Director, Office of War Information.

Paul V. McNutt, of Indiana, Chairman, War Manpower Commission.

Maj. Gen. Lewis B. Hershey, of Indiana, National Director, Burcau of Selective Service.

Donald M. Nelson, of Missouri, Chairman, War Production Board.

Dilion S. Myer, of Ohio, Director, War Rejocation Authority

Rear Admiral Emory S. Land, of Colorado, Administrator, War Shipping Administrator.

tration.

Brig. Gen. Philip B. Fleming, of Iowa, Administrator, Federal Works Agency: War Public Works Program, War Public Service Program.

Department of Agriculture; Marvin Jones, of Texas, Administrator, War Food Adminis-

tion:

Department of Commerce; Sam H. Husbands, of South Carolina, President, Defense Plant Corporation.

Corporation.

Henry A. Mulligan, of West Virginla, President, Defense Supplies Corporation.
Chartes B. Henderson, of California, President, Metals Reserve Company.
H. J. Klossner, of Minnesota, President, Rubber Reserve Company.
W. L. Clayton, of Mississippl, President, War Damage Corporation.
Department of the Interior: Harold L. Ickes, of Illinois, Coordinator, Office of Fishery Coordination; Administrator, Solid Fuels Administration for War.
Government practice lists elected officials by residence — appointed officials by place of birth

birth.

Courtesy O.W.I., Aug. 15, 1943

Tables of Measures

(English Units)

Linear Measure

1 foot=12 inches 1 yard=3 feet 1 rod=5½ yards=16½ feet 1 mlle=320 rods=1760 yards= 5280 feet

1 nautical mile=6080 feet 1 knot=1 nautlcal mile per hour 1 furlong=1% mile=660 feet= 220 yards

league=3 miles=24 furlongs fathom=2 yards=6 feet chaln=100 links=22 yards

1 link=7.92 inches 1 hand=4 inches 1 span=9 inches

Square Measure

1 square foot=144 square inches 1 sq. yard = 9 sq. feet
1 sq. rod = 30¼ sq. yards =
272¼ sq. ins.
1 acre = 160 sq. rods = 43560 sq. ft.
1 sq. mile = 640 acres = 102400 sq. rods 1 sq. rod=625 square links 1 sq. chain=16 square rods 1 acre=10 square chains

Cubic Measure

1 cubic foot=1728 cubic inches 1 cubic yard=27 cu, feet 1 register ton (shipping measure) =100 cubic feet 1 U. S. shipping ton=40 cu. ft. 1 cord=128 cubic feet 1 U. S. Ilquid gallon=4 quarts =231 cubic inches 1 imperial gal.=1.20 U. S. gals. =0.16 cubic feet 1 board foot=144 cubic inches

(Metric Units)

Linear Measure

1 centimeter=10 millimeters 1 decimeter=10 centimeters meter=10 decimeters dekameter=10 meters hektometer=10 dekameters 1 kilometer=10 hektometers 1 inch=2.54 centlmeters 1 meter=39.37 inches yard=0.914 meters 1 mile=1609 meters= 1.61 kilometers

Square Measure

centlmeter== 1 square 100 square millimeters 1 sq. decimeter= 100 sq. centimeters 1 sq. meter=100 sq. decimeters= 1 centar 1 ar=100 centars 1 hektar=100 ars 1 sq. kllometer=100 hektars 1 sq. centlmeter=0.15 sq. inches 1 sq. meter=1.20 sq. yards 1 sq. kllometer=0.39 sq. miles 1 hektar=2.47 acres 1 sq. inch=6.45 sq. cm. 1 sq. yard=0.84 sq. m. 1 sq. mile=2.59 sq. km. 1 acre=0.40 hektars

Cubic Measure

1 cubic centimeter= 1000 cubic millimeters 1 cu. decimeter= 1000 cu. centimeters 1 cu. meter=1000 cu. decimeters 1 cu. yard=0.76 cublc meters
1 cu. yard=0.76 cublc meters
1 cu. meter=1.31 cubic yards
1 liter=1.06 U. S. liquid quarts
1 hektoliter=100 liters=
26.42 U. S. liquid gallons
1 U. S. liquid quart=0.94 liters
1 U. S. liquid gallon=3.76 liters

Weights

Avoirdupois

1 pound=16 ounces 1 hundredweight=100 pounds 1 ton=20 hundredweight= 2000 pounds 1 long ton=2240 pounds

Troy

(Used in weighing gold, silver, jewels)

1 pennyweight=24 grains 1 ounce=20 pennyweight

1 pound=12 ounces

Apothecarles

scruple=20 grains 1 dram=3 scruples 1 ounce=8 drams 1 pound=12 ounces

Metric

1 centigram=10 milligrams 1 decigram=10 centigrams 1 gram=10 decigrams 1 dekagram=10 grams 1 hektogram=10 deka dekagrams 1 kilogram=10 hektograms 1 metric ton=1000 kilograms kilogram=2.20 pounds 1 pound avoirdupois= 0.45 kilograms



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TOOK EGG REGORD												
	JAN.	FEB.	MARCH	APRIL	JUNE							
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Church and Dwight CoCover 114 Dwineli Wright Co74 The Esmand Mills Co75	U. S. War Bonds. 73 W. F. Young, Inc. 49 Yankee Inc. 77

ANSWERS TO CHARADES ON PAGE 44

1. Support. 2. Teaspoon, 3. Phantom, 4. Siberia, Liberia, Iberia, Tiber, Ti 5. Ararat. 6. Evergreen, 7. Chinchilla. 8. Chrysanthemum, 9. Chimney-piece.

ANSWERS TO PUZZLES ON PAGE 45

1. A Pium Pudding. (1) Mace (M-ace). (2) Fibur (Flower). (3) Ciove (C-love). Currants (currents). (5) Indian-meal. (6) Afispice (awis-p-ice). (7) Molasses do. fasses). (8) Candied iemon-peel (candid-iemon peal). (9) Citron (sit run). (4)

(4) Currants (currents). (5) Indian-meal. (6) Alispice (awis-p-ice). (7) Molasses (Mo. iasses). (8) Candied iemon-peel (candid-iemon peai). (9) Citron (sit run). (10) Suet (Suc ate).

2. 763 times around the world.

3. (1) Cleveiand. (2) Garfield. (3) Madison. (4) Washington. (5) July. July death dates for Presidents as follows: July 4, 1826, John Adams, July 4, 1826, Jefferson, July 4, 1831, Monroe, July 9, 1850, Taylor, July 24, 1862, Van Buren, July 31, 1875, Johnson, July 2, 1881, Garfield, July 23, 1885, Grant.

4. Clio, one of the nine muses.

5. (1) Part—trap. (2) Paws—swap. (3) Liar—rail. (4) Bat—tab. (5) Raps—spar. (6) Snub—buns. (7) Bard—drab. (8) Fled—deif.

6. Never condemn what you do not understand.

The Wor Production Boord ruling that we use 10% less paper this year than last has occasioned a 16 page smaller book in order to allow for our normal distribution . . . purposely cut back last year to help the war effort.

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lan. 93rd Birthday commences Fornitore Values for ye thrifty-minded. Feb.

Walentine's Day

Feb. Romantic gifts from JORDAN MARSH SPRING COMMENCES Mar. 21

Apr.

Aug. 30

Sep.

Sep.

Oct.

Dec.

Garden Shop Ready

Apr. Easter Sunday Easter parade GET READY FOR OUTDOORS May

lun. Schools CLOSED Buy Children's vacation play Jul.

Independence Day

Vacation Season ends

Housewares Event commences!

ifallic conuniencies arm clathes, &c. against caming of frast

Columbus Day are are are

Nov. 24 Thanksgiving Day

21 Winter Commences

Dec. 25 A Merry Christmas to A

Shoppers' Calendar

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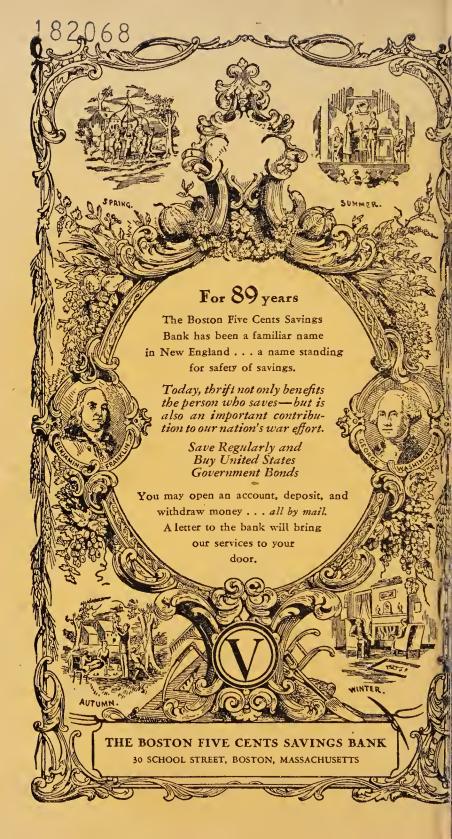
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